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ext/spl/spl_array.h
PRF Version 7

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ext/spl/spl_heap.c
                                                                        | Copyright (c) 1997-2018 The PHP Group
                 18:
19: /* SIdS */
20:
21: #ifdef HAVE
                 25: #include "php.h"
26: #include "zend_exceptions.h"
                 27:
28: #include "php_spl.h"
29: #include "spl_functions.h"
30: #include "spl_engine.h"
31: #include "spl_iterators.h"
32: #include "spl_heap.h"
33: #include "spl_exceptions.h"
                                           #define SPL_HEAP_CORRUPTED 0x0000000
                 46:
47: PHBAPI zend_class_entry *spl_ce_SplHeap;
48: PHBAPI zend_class_entry *spl_ce_SplMaxHeap;
49: PHBAPI zend_class_entry *spl_ce_SplMaxHeap;
50: PHBAPI zend_class_entry *spl_ce_SplFriorityQu
        cypend int (*spl_pt_hap_cmp_f
57: typedef struct _spl_pt_hap_
57: typedef struct _spl_pt_hap_
57: typedef struct _spl_pt_rhap_
58: avai
59: app_tet_hap_ctor_func ctor;
61: app_tet_hap_ctor_func cup;
62: int ana__siz
63: int ana__siz
64: int flags;
65: |app_tet_happ_ctor_func cup;
67: |app_tet_hap
                                           typedef struct _spl_heap_object spl_heap_object;
typedef struct _spl_heap_it spl_heap_it;
                                        Ss: static inline spl_heap_object *spl_heap_from_obj(zend_object *obj) /* ([( */
86: return (spl_heap_object*)((char*)(obj) - XtOffsetOf(spl_heap_object, std));
87: ]
                                           #define Z_SPLHEAP_P(zv) spl_heap_from_obj(Z_OBJ_P((zv)))
                 103:
104: static int spl_ptr_heap_cmp_cb_helper(zval *object, spl_heap_object *heap_object, zval *a, zval *b, zend_long *result) { /* {{{{}'}} } } {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{
                                                       *result = zval_get_long(szresult);
zval_ptr_dtor(szresult);
                                                 return SUCCESS;
                                                    if ((flags & SPL_POMENE_EXTR_BOT8) -= SPL_POMENE_EXTR_BOT8) {
    return value;
    slass if ((flags & SPL_POMENE_EXTR_BOT8) > 0) {
    if ((flags & SPL_POMENE_EXTR_BOT8) > 0) {
        if ((flags & SPL_POMENE_EXTR_BOT8) > 0) {
        if ((flags & SPL_POMENE_EXTR_BOT8) > 0) {
        if ((data = zond_blash_str_find(Z_ABSVAL_P(value), "data", sizeof('data") - 1)) !- NULL) {
        return data.
125: if ((tlags & PSP_POUNE_EXTL_DATA) -- BP_POUNE_EXTL_DATA) (

156: rval "data;

127: if ((data - send_hash_str_find(Z_MBNVAL_P(value), "data", siseof("data") -

128: return data;

130: | siseof("data") --

130: | rval "priority;

131: rval "priority;

132: if ((priority - sond_hash_str_find(Z_MBNVAL_P(value), "priority", siseof("priority"), 
                                                             146: return 0;
147: | 157: | 15 (object) |
149: | 15 (object) |
149: | 15 (object) |
150: | apt_base_Object *base_object = Z_SPEMEAP_F(object);
151: | 16 (base_object-offit_comp) |
151: | pan_compone_observed between 0;
152: | anon_compone_observed between 0;
155: | return 0;
156: | return 0;
157: | return 10 | 0 ? 1 : (lval < 0 ? -1 : 0);
157: | return 10 | 0 ? 1 : (lval < 0 ? -1 : 0);
150: | return 0;
170: | 
                                           .

If (object) (
spl.heap.colject 'heap.cbject = Z.SFLHEAP.F(object);

If (May.chject-fytz.com) (

If (May.chject-fytz.com) (

If (spl.htz.heap.comp.ch_heaper(object, heap.object, a, b, alval) == FAILURE) (

/* exception or call failure =/

setum 0;
                                                                  return lval > 0 ? 1 : (lval < 0 ? -1 : 0);
        180: return lval > 0 ? 1 : (lval < 182: )
183: )
184: |
185: compare_function(sresult, b, a);
186: return (int)2_LVAL(result);
```

```
zva1 *esult;
zva1 *a_priority_p = sp1_pqueue_extract_helper(a, SPL_PQUEUE_EXTR_PRIORITY);
zva1 *b_priority_p = sp1_pqueue_extract_helper(b, SPL_PQUEUE_EXTR_PRIORITY);
                         if ((!a_priority_p) || (!b_priority_p)) {
    zend_orror(E_RECOVERABLE_ERROR, "Unable to extract from the PriorityQueue node"),
    return 0;
                      If (object) {
    ppl.bag_cdjset 'hamp_object = %_STREAS_F(object);
    if (ppl.get.bag_cdjset = %_STREAS_F(object);
    if (ppl.get.bag_cdjset) = %_STREAS_F(object, bap_object, a_priority_p, b_priority_p, ilval) -- FAILURE) {
    /*exception or call failure */
    **exception or call failure */
                                                     eturn lval > 0 ? 1 : (lval < 0 ? -1 : 0);
                         compare_function(&result, a_priority_p, b_priority_p);
return (int)Z_LVAL(result);
                             spl_ptr_heap *heap = emalloc(sizeof(spl_ptr_heap));
                        z36:
237: static void spl.gtr_heap_insert(spl.gtr_heap *heap, zval *elem, void *cmp_userdata) { /* {{{\psi} *}} {{\psi} *} {{\psi} *
                        if (heap->count+1 > heap->max_size) (
/*we need to allocate more memory */
heap->elements = erealle(heap->elements, heap->max_size * 2 * sizeof(zva)
memort(heap->elements + heap->max_size, 0, heap->max_size * sizeof(zval));
heap->max_size * 2;
                        /* sifting up */ for (i = heap->count; i > 0 && heap->cmp(&heap->elements[(i-1)/2], elem, cmp_userdata) < 0; i = (i-1)/2) { heap->elements[(i - heap->elements[(i-1)/2]; elem, cmp_userdata) < 0; i = (i-1)/2) { heap->elements[(i-1)/2]; elem, cmp_userdata}
                         l
heap->count++;
                        if (EG(exception)) {
    /* exception thrown during comparison *,
    heap->flags |= SPL_HEAP_CORRUPTED;
}
                        return Z_ISUNDEF(heap->elements[0])? NULL : sheap->elements[0];
 279;
"Til static veld spl.ptr.heap.delete_top(spl.ptr_heap "heap, zval "elen, veld "cmp_userdata) ( /* ((( */ 2723: cost int i, )) 273: cost int linit = (heap->count-1)/2; 274: 274: 274: tottos;
                        /* swap elements between two levels */
if themp-comp (not com, sheap-velements[]], compuserdata) < 0) {
    heap-velements[] = heap-velements[]];
    heap-velements[] = heap-velements[]];
    heak)
                         if (EG(exception)) {
    /* exception thrown during comparison */
    heap->flags |= SPL_HEAP_CORRUPTED;
}
                         ZVAL_COPY_VALUE(sheap->elements[i], bottom);
                      static spl_ptr_heap *spl_ptr_heap_clone(spl_ptr_heap *from) { /* {{{ '' } {{ } } } } }
                         spl_ptr_heap *heap = emalloc(sizeof(spl_ptr_heap));
                           heap->elements = safe_emalloc(sizeof(zval), from->max_size, 0); memcpy(heap->elements, from->elements, sizeof(zval)*from->max_size);
                         return heap;
    342:
343: static int spl.ptr_heap_count(spl.ptr_heap *heap) ( /* ((( */ 34: 34: 1 return heap>count; 34: 1 return heap>co
    348: zend_object_iterator *spl_heap_get_iterator(zend_class_entry *ce, zval *object, int by_ref); 349:
                      static void spl_heap_object_free_storage(zend_object *object) /* {{{ "/
                           spl_heap_object *intern = spl_heap_from_obj(object);
                         zend_object_std_dtor(&intern->std);
   iss:
360: static rand_object *spl_hasp_object_naw_ax(rand_class_entry *class_type, zval *orig, int clone_orig) /* ([[ */ 361: [ 362: spl_hasp_object *inron*
                         spl_heap_object *intern;

zend_class_entry *parent = class_type;

int inherited = 0;
                         intern = zend_object_alloc(sizeof(spl_heap_object), parent);
                           zend_object_std_init(&intern->std, class_type);
object_properties_init(&intern->std, class_type);
                           intern->flags = 0;
intern->fptr_cmp = NULL;
                        if (orig) {
   spl_heap_object *other = Z_SPLHEAP_P(orig);
   intern->ce_get_iterator = other->ce_get_iterator;
```

```
if (clone_orig) {
  intern->heap = spl_ptr_heap_clone(other->heap);
) else {
  intern->heap = other->heap;
     intern-yflags = other-yflags;
| alse (
intern-ybag) = spl.ptr_bag_intt(spl.ptr_bag_rval_max_cmp, spl.gtr_baap_rval_ctor, spl.ptr_baap_rval_dtor);
     intern->std.handlers = &spl_handler_SplHeap;
  while (parent) {
   if (parent == spl_ce_SplPriorityQueue) {
      intern-Nasp->cmp = spl_ptr_popueue_zval_cmp;
      intern-Yilags = SPL_PQUEUE_EXTR_DATA;
      intern->std.handlers = ispl_handler_SplPriorityQueue;
      break;
                     (parent == spl_ce_SplMinHeap) (
intern->heap->cmp = spl_ptr_heap_zval_min_cmp;
break;
         if (parent == spl_ce_SplMaxHeap) (
  intern->heap->cmp = spl_ptr_heap_zval_max_cmp;
  break;
         parent = parent->parent;
inherited = 1;
     if (!parent) ( /* this must never happen */
php_arror_docref(NULL, R_COMPILE_ERROR, "Internal compiler error, Class is not child of SpiHeap");
    if (inherited) (p
inter->fpt_cmp = send_hash_str_find_ptr(iclass_type->function_table, "compare", sizeof("compare") - 1);
if (intern->fptr_cmp->comon.scope == parent) (
intern->fptr_cmp = NULL;
          ]
interm->fptr_count = rend_hash_str_find_ptr(sclass_type->function_table, "count", sizeof("count") - 1);
if (intern->fptr_count = NULT, count = NULT, count
    return sintern->std;
static zend_object *spl_heap_object_new(zend_class_entry *class_type) /* ((( */
     return spl_heap_object_new_ex(class_type, NULL, 0);
    zend_object *old_object;
zend_object *new_object;
    old_object = Z_OBJ_P(zobject);
new_object = spl_heap_object_new_ex(old_object->ce, zobject, 1);
     zend_objects_clone_members(new_object, old_object);
    spl_heap_object *intern = Z_SPLHEAP_P(object);
  if (intern-yptr_count) {
    voil rv;
    red_call_nethod_with_0_params(object, intern->std.ce, sintern->fptr_count, "count", srv);
    if (IZ_ISUMSET(rv)) {
        recunt - run_l_sec_long(srv);
        recunt - run_l_sec_long(srv);
        return_outCods);
        return_outCods);
     *count = spl_ptr_heap_count(intern->heap);
     return SUCCESS;
static EnaUTABLY spl.bags_object_get_debog_info_balper(sond_class_setry *cs, rval *cbj, int *is_temp) ( /* ((( '
spl.bags_object 'wincern = _EFFIRED_P(obj))

read_string *past;

RanNTable *debog_info;

int i;
    if (!intern->std.properties) {
   rebuild_object_properties(&intern->std);
     debug_info = zend_new_array(zend_hash_num_elements(intern->std.properties) + 1);
zend_hash_copy(debug_info, intern->std.properties, (copy_ctor_func_t) zval_add_ref);
     pnstr = spi_gen_private_prop_name(ce, "flags", sizeof("flags")-1);
ZVAL_LONG(stmp, intern->flags);
zend_hash_update(debug_info, pnstr, stmp);
zend_srring_velease(pnstr);
     pnstr = spl_gen_private_prop_name(ce, "isCorrupted", sizeof("isCorrupted")-1);
ZVAL_BOOL(stmp, intern->heap->flags&SPL_BEAP_CORRUPTED);
zend_hash_update(debug_info, pnstr, stmp);
zend_stal_update(debug_info, pnstr, stmp);
     array_init(sheap_array);
     for (i = 0; 1 < intern->heap->count; ++i) {
   add_index_uval(sheap_array, i, sintern->heap->elements[i]);
   if (Z_RECOUNTED(intern->heap->elements[i])) {
        Z_ADOREF(intern->heap->elements[i]);
}
    pnstr = spl_gen_private_prop_name(ce, "heap", sizeof("heap")-1);
zend_hash_update(debug_info, pnstr, sheap_array);
zend_string_release(pnstr);
static HashTable *spl_heap_object_get_gc(zval *obj, zval **gc_data, int *gc_data_count) /* ((( */
  spl_heap_object *intern = Z_SPLHEAP_P(obj);
*gc_data = intern->heap->elements;
*gc_data_count = intern->heap->count;
     return std_object_handlers.get_properties(obj);
static HashTable* spl_heap_object_get_debug_info(zval *obj, int *is_temp) /* ((( */
 return spl_heap_object_get_debug_info_helper(spl_ce_SplHeap, obj, is_temp);
}
static HashTable* spl_pqueue_object_get_debug_info(zval *obj, int *is_temp) /* {{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}} /{{{}}}
    zend_long count;
spl_heap_object *intern = Z_SPLHEAP_P(getThis());
    if (zend_parse_parameters_none() == FAILURE) (
    count = spl_ptr_heap_count(intern->heap);
RETURN_LONG(count);
seturn true if the heap is empty. */
SPL_METHOD(SplHeap, isEmpty)
{
spl_heap_object *intern = Z_SPLHEAP_P(getThis());
```

```
565:
566:
         if (zend_parse_parameters_none() == FAILURE) {
         RETURN_BOOL(spl_ptr_heap_count(intern->heap) == 0);
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", &value) == FAILURE) {
   return;
         intern = Z_SPLHEAP_P(getThis());
         if (intern->heap->flags & SPL_HEAP_CORRUPTED) {
  zend_throw_exception(apl_ce_RuntimeException, "Heap is corrupted, heap properties are no longer ensured.", 0);
         Z_TRY_ADDREF_P(value);
spl_ptr_heap_insert(intern->heap, value, getThis());
         RETURN_TRUE;
598: /* ([[ proto mixed SplHeap::extract()
599: extract the element out of the top of the heap */
600: SPL_METHOD(SplHeap, extract)
         spl_heap_object *intern;
         if (zend_parse_parameters_none() == FAILURE) {
         intern = Z_SPLHEAP_P(qetThis());
         spl_ptr_heap_delete_top(intern->heap, return_value, getThis());
         if (Z_ISUNDEF_P(return_value)) {
  zend_throw_exception(spl_ce_RuntimeException, "Can't extract from an empty heap", 0);
622; /* 1)] */
623:
624; /* [[[ proto bool SplPriorityQueue::insert[mixed value, mixed priority
624; /* [[[ proto bool SplPriorityQueue: finert]
625: Push Svalue with the priority Spriodiry on the priorityQueue */
626: 851_MCTROO(SplPriorityQueue, insert)
626: 851_MCTROO(SplPriorityQueue, insert)
628: zval *data, *priority, elem;
629: spl_heap_object *intern;
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "zz", sdata, spriority) == FAILURE) (
    return;
         intern = Z_SPLHEAP_P(getThis());
         if (intern->heap->flags & SPL_HEAP_COSMUPTED) {
            zend_throw_exception(spl_ce_RuntimeException, "Heap is corrupted, heap properties are no longer ensured.", 0);
            return;

         Z_TRY_ADDREF_P(data);
Z_TRY_ADDREF_P(priority);
         add_assoc_zval_ex(selem, "data", sireof("data") - 1, data);
add_assoc_zval_ex(selem, "priority", sireof("priority") - 1, priority);
         spl_ptr_heap_insert(intern->heap, selem, getThis());
         RETURN TRUE:
      :
'* {|{| proto mixed SplPriorityQueue::extract()}
: extract the element out of the top of the priority queue */
: SPL_METHOD(SplPriorityQueue, extract)
         if (zend_parse_parameters_none() == FAILURE) {
    return;
         intern = Z_SPLHEAP_P(getThis());
         if (Z_ISUNDEF(value)) {
   zend_throw_exception(spl_ce_SuntimeException, "Can't extract from an empty heap", 0);
   return;
}
         value_out = spl_pqueue_extract_helper(svalue, intern->flags);
         if (!value_out) {
    zend_error(E_RECOVERABLE_ERROR, "Unable to extract from the PriorityQueue node");
    rval_ptr_dtor(svalue);
    return;
         ZVAL_DEREF(value_out);
ZVAL_COPY(return_value, value_out);
zval ptr dtor(svalue);
         zval *value, *value_out;
spl_heap_object *intern;
         if (zend_parse_parameters_none() == FAILURE) {
         value = spl_ptr_heap_top(intern->heap);
         if (!value) {
   zend_throw_exception(spl_ce_RuntimeException, "Can't peek at an empty heap", 0);
   return;
         value_out = spl_pqueue_extract_helper(value, intern->flags);
         if (!value_out) {
  zend_error(E_RECOVERABLE_ERROR, "Unable to extract from the PriorityQueue node");
       /* ((( proto int SplPriorityQueue::setExtractFlags(int flags)
Set the flags of extraction*/
SPL_METHOD(SplPriorityQueue, setExtractFlags)
         intern->flags = value & SPL_PQUEUE_EXTR_MASK;
 751: /* [[[ proto int SplPriorityQueue::getExtractFlags() 752: Get the flags of extraction*/
```

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```
753: SPL_METHOD(SplPriorityQueue, getExtractFlags)
                spl_heap_object *intern;
                                                                                                                                                                                                                                                                                                                                                                                                                            spl_heap_object *object = Z_SPLHEAP_P(siter->data);
zval elem;
              if (zend_parse_parameters_none() == FAILURE) (
               intern = Z_SPLHEAP_P(getThis());
              RETURN_LONG(intern->flags);
            Recover from a corrupted state*/
SPL_METHOD(SplHeap, recoverFromCorruption)
                spl_heap_object *intern;
              if (zend_parse_parameters_none() == FAILURE) (
    return;
                                                                                                                                                                                                                                                                                                                                                                                                                            {
   spl_heap_object *intern = Z_SPLHEAP_P(getThis());
                                                                                                                                                                                                                                                                                                                                                                                                                          if (zend_parse_parameters_none() == FAILURE) {
    return;
               intern->heap->flags = intern->heap->flags & "SPL_HEAP_CORRUPTED;
               RETURN TRUE:
             /* ([[ proto int SplHeap::isCorrupted()
Tells if the heap is in a corrupted state*/
SPL_METHOD(SplHeap, isCorrupted)
                                                                                                                                                                                                                                                                                                                                                                                                               974: /* ((( proto void SplHeap::next()
975: Move to next entry */
976: SPL_METHOD(SplHeap, next)
               spl_heap_object *intern;
                                                                                                                                                                                                                                                                                                                                                                                                                            spl_heap_object *intern = Z_SPLHEAP_P(getThis());
zval elem;
spl_ptr_heap_delete_top(intern->heap, selem, getThis());
                                                                                                                                                                                                                                                                                                                                                                                                                            if (zend_parse_parameters_none() == FAILURE) {
              intern = Z_SPLHEAP_P(getThis());
                RETURN_BOOL(intern->heap->flags & SPL_HEAP_CORRUPTED);
                                                                                                                                                                                                                                                                                                                                                                                                                         zval_ptr_dtor(selem);
            /* [[[ proto bool SplPriorityQueue::compare(mixed Sa, mixed Sb)
compare the priorities */
SPL_METHOD(SplPriorityQueue, compare)
                                                                                                                                                                                                                                                                                                                                                                                                            989:
990:/* [{| proto bool SpiHeap::valid()
991: Check whether the datastructure conta:
992: SPL_METHOD(SpiHeap, valid)
               zval *a, *b;
                                                                                                                                                                                                                                                                                                                                                                                                                            spl_heap_object *intern = Z_SPLHEAP_P(getThis());
              if (zend_parse_parameters(ZEND_NUM_ARGS(), "zz", &a, &b) -- FAILURE) {
   return;
                                                                                                                                                                                                                                                                                                                                                                                                            995: if (rend_parse_parameters_none() -- FAILURE) (
997: return;
              RETURN_LONG(spl_ptr_heap_zval_max_cmp(a, b, NULL));
                                                                                                                                                                                                                                                                                                                                                                                                          1000: Maintenance:
1001: )
1002: '* | | | |
1002: '* | | |
1002: '* | | |
1003: '* | | |
1004: '* | | |
1005: BLUCTROO(Splikasp:rewind)
           /* [[[ proto mixed SplHeap::top() Peek at the top element of the heap */ SPL_METHOD(SplHeap, top)
              zval *value;
spl_heap_object *intern;
                                                                                                                                                                                                                                                                                                                                                                                                                             if (zend_parse_parameters_none() == FAILURE) {
   return;
                                                                                                                                                                                                                                                                                                                                                                                                             1010: )
1011: /* do nothing, the iterator always points to the top element */
              if (zend_parse_parameters_none() -- FAILURE) (
                                                                                                                                                                                                                                                                                                                                                                                                           if (intern->heap->flags & SPL_MEAP_CORRUPTED) {
   zend_throw_exception(spl_ce_EuntimeException, "Heap is corrupted, heap properties are no longer ensured.", 0);
                                                                                                                                                                                                                                                                                                                                                                                                           1019: spl_heap_object *intern = Z_SPLHEAP_P(getThis());
1020: zval *element = &intern->heap->elements[0];
1021:
                                                                                                                                                                                                                                                                                                                                                                                                           value = spl_ptr_heap_top(intern->heap);
              if (!value) {
   zend_throw_exception(spl_ce_RuntimeException, "Can't peek at an empty heap", 0);
   return;
                                                                                                                                                                                                                                                                                                                                                                                                             1025:
1026: if (!intern->heap->count || 2_ISUNDEF_P(element)) {
1027: RETURN_NULL();
               ZVAL_DEREF(value);
ZVAL_COPY(return_value, value);
                                                                                                                                                                                                                                                                                                                                                                                                                            spl_heap_object *intern = Z_SPLHEAP_P(getThis());
zval *element = &intern->heap->elements[0];
              if (zend_parse_parameters(ZEND_NUM_ARGS(), "zz", sa, sb) == FAILURE) {
   return;
                                                                                                                                                                                                                                                                                                                                                                                                                            if (zend_parse_parameters_none() == FAILURE) {
                                                                                                                                                                                                                                                                                                                                                                                                                            if (!intern->heap->count || Z_ISUNDEF_P(element)) {
   RETURN_NULL();
                                                                                                                                                                                                                                                                                                                                                                                                                            } else {
   zval *data = spl_pqueue_extract_helper(element, intern->flags);
             if (zend_parse_parameters(ZEND_NUM_ARGS(), "zz", 6a, 6b) == FAILURE) {
   return;
               RETURN_LONG(spl_ptr_heap_zval_max_cmp(a, b, NULL));
            static void spl_heap_it_dtor(zend_object_iterator *iter) /* /// */
                spl_heap_it *iterator = (spl_heap_it *)iter;
              zend_user_it_invalidate_current(iter);
zval_ptr_dtor(siterator->intern.it.data);
                  /* do nothing, the iterator always points to the top element */
                                                                                                                                                                                                                                                                                                                                                                                                           1072: static comet rand_object_iterator_funcs spl_pqueue_it_funcs = {
1074: spl_beap_it_min(,
1074: spl_beap_it_valid,
1076: spl_beap_it_valid,
1076: spl_pqueue_it_spt_current_data,
1076: spl_pqueue_it_spt_current_key,
1078: spl_beap_it_spt_current_key,
1078: spl_beap_it_spt_current_key,
1078: spl_beap_it_spt_current_key,
1079: s
               spl_heap_object *object = Z_SPLHEAP_P(siter->data);
zval *element = sobject->heap->elements[0];
                                                                                                                                                                                                                                                                                                                                                                                                                            spl_heap_it *iterator;
spl_heap_object *heap_object = Z_SPLHEAP_P(object);
               if (cbject->heap->flags & SPL_HEAP_CORFUFTED) {
    zend_throw_exception(spl_ce_RuntimeException, "Heap is corrupted, heap properties are no longer ensured.", 0);
    return NULL.
              if (object->heap->count == 0 || Z_ISUNDEF_P(element)) {
   return NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                            iterator = emalloc(sizeof(spl heap it)):
                                                                                                                                                                                                                                                                                                                                                                                                                            zend_iterator_init(siterator->intern.it);
                                                                                                                                                                                                                                                                                                                                                                                                                            ZVAL_COPY(siterator->intern.it.data, object);
iterator->intern.it.funcs = sspl_heap_it_funcs;
iterator->intern.ce = ce;
iterator->flags = heap_object->flags;
ZVAL_UNDEF(siterator->intern.value);
            static zval *spl_pqueue_it_get_current_data(zend_object_iterator *iter) /* ((( */
                spl_heap_object *object = 2_SPLHEAP_P(siter->data);
zval *element = sobject->heap->elements[0];
               if (object->heap->flags & SPL_MEAP_CORMUPTED) {
    zend_throw_axception(spl_ce_BuntimeException, "Heap is corrupted, heap properties are no longer ensured.", 0);
    return NULL.
                                                                                                                                                                                                                                                                                                                                                                                                                             spl_heap_it *iterator;
spl_heap_object *heap_object = Z_SPLHEAP_P(object);
              if (object->heap->count -- 0 || Z_INUMEF_F(element)) {
    return NULLy
    return NULLY

                                                                                                                                                                                                                                                                                                                                                                                                                            ZVAI_COPY(siterator=>intern.it.data, object);
iterator=>intern.it.funcs = sspl_pqueue_it_funcs;
iterator=>intern.ce = ce;
iterator=>flags = heag_object=>flags;
933:
334: static void spl.basp.it.get_current_key(sond_object_iterator *iter, zval *key) /* [[[ */ 935: [ap._object *object = Z_SPIHERP_P(iter->data);
936: [spl.basp_object *object = Z_SPIHERP_P(iter->data);
937:
938: [VAL_LOGG(key, object->basp->count - 1);
            ZVAL_LONG(key, object->heap->count - 1);
                                                                                                                                                                                                                                                                                                                                                                                                                            ZVAL UNDEF(&iterator->intern.value):
```

```
941: 942: static void spl_beap_it_move_forward(zend_object_iterator *iter) /* ({{{}}|{{}}|{{}}|{{}}|{{}}|} */ 943: (
             I (idata) (
zend_error(E_RECOVERABLE_ERROR, "Unable to extract from the PriorityQueue node");
RETURN_MULL();
1082: 2004_object_iterator *spl_heap_get_iterator(zend_class_entry *ce, zval *object, int by_ref) /* [[[ */
        if (by_ref) (
   zend_throw_exception(spl_ce_RuntimeException, "An iterator cannot be used with foreach by reference", 0);
   return NULL;
       zend_object_iterator *spl_pqueue_get_iterator(zend_class_entry *ce, zval *object, int by_ref) /* ((( */
        if (Py_ref) { 
    zend_throw_acception(spl_ce_BuntimeException, "An iterator cannot be used with foreach by refer |
    return NULL; }
```

```
1129: }
1130: /* /// */
   1149:
1150: IERO_BEDIM_ANG_INFO(arginfo_spiheap_void, 0)
1151: IERO_BED_MAG_INFO()
1152:
1153: istatic comet rend_function_entry spi_funcs_SpihinSeap[] = {
1154: is_fi_B(SpihinSeap, compare, arginfo_beap_compare, IERO_ACC_PROTECTED)
1154: is_fi_B(SpihinSeap, compare, arginfo_beap_compare, IERO_ACC_PROTECTED)
1155: is_fi_B(SpihinSeap, compare, arginfo_beap_compare, arginfo_beap_compa
| THE PROPERTY OF THE PROPERTY
                   1198:
1199: PHP_MINIT_FUNCTION(spl_heap) /* ((( */
1200: (
           LZ001: REGISTER_SPL_STD_CLASS_EX(SplHeap, spl_heap_object_new, spl_tuncs_SplHeap);
1202: memcpy(sepl_handler_SplHeap, zend_yet_std_object_handlers(), sizeof(rend_object_handlers));
1203:
                                                                            spl_ce_SplHeap->get_iterator = spl_heap_get_iterator;
                                                                                spl_ce_SplMaxHeap->get_iterator = spl_heap_get_iterator;
spl_ce_SplMinHeap->get_iterator = spl_heap_get_iterator;
                                                                            1227: splhandre_SplFriorityjouse.close_Spl
splhandre_SplFriorityjouse.come_splease.spl
1228: splhandre_SplFriorityjouse.come_splease.spl
1229: splhandre_SplFriorityjouse.spl_spl
1229: splhandre_SplFriorityjouse.spl_spl
12210: splhandre_SplFriorityjouse.spl_spl
12211: splhandre_SplFriorityjouse.dre_rpl
12211: splhandre_SplFriorityjouse.dre_rpl
12212: splhandre_SplFriorityjouse.dre_rpl
12213: splhandre_SplFriorityjouse.dre_rpl
12214: splhandre_SplFriorityjouse.dre_rpl
12214: splhandre_SplFriorityjouse.dre_rpl
12215: splhandre_SplFriorityjouse.dre_rpl
12216: splhandre_splhandre_splhandre_splhandre_splhandre_splhandre_splhandre_splhandre_splhandre_splhandr
                                                                            REGISTER_SPL_CLASS_CONST_LONG (SplFriorityQueue, "EXTR_BOTB", SPL_PQUEUR_EXTR_BOTB", REGISTER_SPL_CLASS_CONST_LONG (SplFriorityQueue, "EXTR_SPLORIT" SPL_PQUEUR_EXTR_SPLOR REGISTER_SPL_CLASS_CONST_LONG (SplFriorityQueue, "EXTR_SPLORITAMA", SPL_PQUEUR_EXTR_SPLOR
```

```
ext/spl/spl_observer.c
                                  Copyright (c) 1997-2018 The PHP Group
                  /* SId$ */
   21:
22: #ifdef HAVE_CONFIG_H
23: # include "config.h"
24: #endif
             'Hinclude "php.h'
'Hinclude "php.ln'
'Hinclude "php.ln'
'Hinclude "php.ln'
'Hinclude "ext/standard/php.array.h'
'Hinclude "ext/standard/php.array.h'
'Hinclude "ext/standard/php.array.h'
'Hinclude "sand.smart.str.h'
'Hinclude "sand.smart.str.h'
'Hinclude "sand.smart.str.h'
'Hinclude "ext.str.h'
'Hinclude "ext.str.h'
    47:
48: ZEND_BEGIN_ARG_INFO(arginfo_SplObserver_update, 0)
49: ZEND_ARG_OBJ_INFO(0, SplSubject, SplSubject, 0)
50: ZEND_END_ARG_INFO();
                  ZEND_BEGIN_ARG_INFO(arginfo_SplSubject_void, 0)
ZEND_END_ARG_INFO();
                /*ZEND_BEGIN_ARG_INFO_EX(arginfo_SplSubject_notify, 0, 0, 1)
ZEND_ARG_OBJ_INFO(0, ignore, SplObserver, 1)
ZEND_END_ARG_INFO();*/
                93: /* [[[ storage is an assoc array of [zend_obj]
94: typedef struct _spl_SplObjectStorageElement [
95: zval obj;
96: zval inf*
                  zval obj;
zval inf;
} spl_SplObjectStorageElement; /* }} */
                  103:
104: #define Z_SPLOBJSTORAGE_P(zv) spl_object_storage_from_obj(Z_OBJ_P((zv)))
105: void spl_SplObjectStorage_free_storage(zend_object *object) /* {{{ "\display="bell" (107: {\display="bell" (2005) } \display="bell" (2005) } \display="bell" (2005) } \display="bell" (2005) \display="bell" (2005) \display="bell" (2005) } \display="bell" (2005) \display="bell" (2005) } \display="bell" (2005) \display="bell" (2005) } \display
                   zend_object_std_dtor(sintern->std);
                       zend_hash_destroy(sintern->storage);
                       if (intern->gcdata != NULL) {
   efree(intern->gcdata);
                     } else {
  return FAILURE;
                               | else {
| key->key = NULL;
| key->h = 2_OBJ_HANDLE_P(obj);
| return SUCCESS;
                  static void spl_object_storage_free_hash(spl_SplObjectStorage *intern, zend_hash_key *key) {
   if (key->key) {
        zend_string_release(key->key);
    }
}
                  static spl_SplObjectStorageElement* spl_object_storage_get(spl_SplObjectStorage *intern, zend_hash_key *key) /* {{{{}^{*}}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} {{}^{*}} 
                       if (key->key) {
  return zend_hash_find_ptr(&intern->storage, key->key);
                       ) else (
return zend_hash_index_find_ptr(sintern->storage, key->h);
                       spl_SplObjectStorageElement *pelement, element;
zend_hash_key key;
if (spl_object_storage_get_hash(skey, interm, this, obj) — FAILURE) {
return NULL)
                       if (pelement) {
    zval_ptr_dtor(spelement->inf);
    if (inf) {
        ZVAL_COPY(spelement->inf, inf);
    }
}
                             } else {
ZVAL_NULL(spelement->inf);
                                 .
spl_object_storage_free_hash(intern, &key);
return pelement;
```

```
if (inf) {
   ZVAL_COPY(selement.inf, inf);
} else {
   ZVAL_NULL(selement.inf);
189:
190:
191:
                   | spl_object_storage_free_hash(intern, &key);
return pelement;
                 static int spl_object_storage_detach(spl_SplObjectStorage *intern, zval *this, zval *obj) /* ((( */
                    {
    int ret = FAILURE;
    zend_hash_key key;
    if (spl_object_storage_get_hash(&key, intern, this, obj) -- FAILURE) {
    return ret;

                   int (key, key) {
    ret = zend_hash_del(sintern->storage, key, key);
    letse (
    ret = zend_hash_index_del(sintern->storage, key, key);
    ret = zend_hash_index_del(sintern->storage, key, h);
    ret = zend_hash_index_del(sintern->storage, key);
}
                     }
spl_object_storage_free_hash(intern, skey);
  219:

220: void spl_object_storage_addal1(spl_SplObjectStorage *intern, zval *this, spl_SplObjectStorage *other) { /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ".}} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{ ". }} /* {{{". }} /* {{". }} /* {{{ ". }} /* {{". }} /* {{{ ". }} /* {{". }} /* {{{ ". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {{". }} /* {
                    ZEND_HASH_FOREACH_PTR(sother->storage, element) {
   spl_object_storage_attach(intern, this, selement->obj, selement->inf);
} ZEND_HASH_FOREACH_END();
                 static zend_object *spl_object_storage_new_ex(zend_class_entry *class_type, zval *orig) /* ((( */
                    intern = emalloc(sizeof(spl_SplObjectStorage) + zend_object_properties_size(parent));
memset(intern, 0, sizeof(spl_SplObjectStorage) - sizeof(zval));
intern->pos = HT_INVALID_IOX;
                     zend_object_std_init(sintern->std, class_type);
object_properties_init(sintern->std, class_type);
                    zend hash init(sintern->storage, 0. NULL, spl object storage dtor, 0);
                    intern->std.handlers = &spl_handler_SplObjectStorage;
                    white (parent) {
   if (parent) = pal_os_phich_pointerrape) {
    if (parent) = pal_os_phich_pointerrape) {
        if (parent) = pal_os_phich_pointerrape) {
        if (parent) = pal_os_phich_pointerrape) {
        if (parent) = pal_os_phich_pointerrape) {
        if (parent) = pal_os_phich_pointerrape) {
        if (parent) = pal_os_phich_pointerrape) {
        intern~orpic_point_pal_os_phich_pointerrape) {
        intern~orpic_point_pointerrape}
    }
    pal_os_phich_pointerrape
        intern~orpic_pointerrape
        intern~orpic_pointerrape

                    parent = parent->parent;
)
                    if (orig) (
    spl_SplObjectStorage *other = Z_SPLOBJSTORAGE_P(orig);
    spl_object_storage_addall(intern, orig, other);
}
                    return &intern->std;
                 /* [[[ spl_object_storage_clone */
static zend_object *spl_object_storage_clone(zval *zobject)
                    old_object = Z_OBJ_P(zobject);
new_object = spl_object_storage_new_ex(old_object->ce, zobject);
                    zend_objects_clone_members(new_object, old_object);
                 static HashTable* spl_object_storage_debug_info(zval *obj, int *is_temp) /* ((( *.
                   spl.SplObjectScrage 'intern = LSPLOBJTOBAGE_P(ob));
spl.SplObjectScragetLement *element;
HashTable *props;
rval tmp, storage;
rval tmp, storage;
rend_string *iname;
HashTable *production_string*
rend_string *iname;
HashTable *debog_info;
                    *is_temp = 1;
                    props = Z_OBJPROP_P(obj);
                 SITEY_INIT(storage);

BEB__UDGN_CREAL_PRE(initern-riscrape, element) {
    sister = php_usp_ceptch_bask(element-obb);
    array_init(stop);

/* Incrementing the refrount of obj and inf would confuse the garbage colle
    *Prefer to mull the destructor */
    LAMANL_P(stop)-ophestructor = NULL;
    LAMANL_P(stop)-ophestructor = NULL;
    add_ussoc_vol_ack(stop, "obj", sizeof("obj") = 1, selement->ch]);
    add_ussoc_vol_ack(stop, "obj", sizeof("obj") = 1, selement->inf);
    add_ussoc_vol_ack(stop, "obj", sizeof("obj") = 1, selement->inf);
    add_ussoc_vol_ack(stop), "obj", sizeof("obj") = 1, selement->inf);
    add_ussoc_vol_ack(stop);
    info_pask_poseAck_stop);

JEND_PASK_POSEAC_ERRO();
                    rname = spl_gen_private_prop_name(spl_ce_SplObjectStorage, "storage", sizeof("storage")-1);
zend_symtable_update(dobug_info, zname, tstorage);
zend_string_release(rname);
                    return debug_info;
                   /* overriden for garbage collection */
static HashTable *spl_object_storage_get_gc(zval *obj, zval **table, int *n) /* {{{{}'}} {{}'}}
                     int i = 0;
spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(obj);
spl_SplObjectStorageElement *element;
                    if (intern->storage.nNumOfElements * 2 > intern->gcdata_num) {
  intern->gcdata_num = intern->atorage.nNumOfElements * 2;
  intern->gcdata = (zval*)erealloc(intern->gcdata, sizeof(zval) * intern->g
                   *table = intern->gcdata;
*n = i;
                     return std_object_handlers.get_properties(obj);
                 static int spl_object_storage_compare_info(zval *el, zval *e2) /* ((( */
                     spl_SplObjectStorageElement *sl = (spl_SplObjectStorageElement*)Z_PTR_P(el);
spl_SplObjectStorageElement *s2 = (spl_SplObjectStorageElement*)Z_PTR_P(e2);
rval results.
                     if (compare_function(sresult, ssl->inf, ss2->inf) == FAILURE) {
   return 1;
                    zend_object *zol = (zend_object *)Z_OBJ_P(o1);
zend_object *zo2 = (zend_object *)Z_OBJ_P(o2);
                    if (zol->ce != spl_ce_SplObjectStorage || zo2->ce != spl_ce_SplObjectStorage) {
   return l;
                     return zend_hash_compare (& (Z_SPLOBJSTORAGE_P(o1)) -> storage, & (Z_SPLOBJSTORAGE_P(o2)) -> storage, (compare_func_t) spl_object_storage_compare_info, 0);
   374: /* (((spl_array_object_new */
375: static rend_object *spl_SplObjectStorage_new(zend_class_entry *class_type)
376: (
```

```
ext/spl/spl_observer.c
         return spl_object_storage_new_ex(class_type, NULL);
       int spl_object_storage_contains(spl_SplObjectStorage *intern, zval *this, zval *obj) /* ([( */
         int found;
rond_hash_key key;
if (spl_object_storage_get_hash(skey, intern, this, obj) -- FAILURE) {
    return 0;
         if (key.key) {
  found = zend_hash_exists(sintern->storage, key.key);
} else {
  found = zend_hash_index_exists(sintern->storage, key.h);
}
        /* {{{ proto void SplObjectStorage::attach(object obj, mixed inf = NULL)
Attaches an object to the storage if not yet contained */
SPL_METROD(SplObjectStorage, attach)
         zval *obj, *inf = NULL;
       sp1_Sp1ObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
        if (zend_parse_parameters(ZEND_NUM_ARGS(), "o|z!", &obj, &inf) == FAILURE) {
       /* ([[ proto void SplObjectStorage::detach(object obj)
Detaches an object from the storage */
SPL_METHOD(SplObjectStorage, detach)
        if (zend_parse_parameters(ZEND_NUM_ARGS(), "o", 4obj) == FAILURE) {
   return;
         spl_object_storage_detach(intern, getThis(), obj);
      zend_hash_internal_pointer_reset_ex(sintern->storage, sintern->pos);
intern->index = 0;
} /* ]]) */
       /* ([[ proto string SplObjectStorage::getHash(object obj)
Returns the hash of an object */
SPL_METHOD(SplObjectStorage, getHash)
         zval *ob1;
        if (zend_parse_parameters(ZEND_NUM_ARGS(), "o", sobj) == FAILURE) {
   return;
       RETURN_NEW_STR(php_spl_object_hash(obj));
       /* [[[ proto mixed SplObjectStorage::offsetGet(object obj;
Returns associated information for a stored object */
SPL_METHOD(SplObjectStorage, offsetGet)
         zval *obj;
spl_SplObjectStorageElement *element;
spl_SplObjectStorage 'intern = Z_SPLOBJSTORAGE_P(getThis());
zond_hash_key key;
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "o", &obj) == FAILURE) (
         if (spl_object_storage_get_hash(skey, intern, getThis(), obj) == FAILURE) {
    return;
         if (!element) {
   zend_throw_exception_ex(spl_ce_UnexpectedValueException, 0, "Object not found");
         ) else {
zval *value = selement->inf;
       /* ((( proto bool SplObjectStorage::addAll(SplObjectStorage Sos)
Add all elements contained in Sos */
SPL_METHOD(SplObjectStorage, addAll)
        zval *obj;

spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());

spl_SplObjectStorage *other;
        if (zend_parse_parameters(ZEND_NUM_ARGS(), "O", &obj, spl_ce_SplObjectStorage) == FAILURE) {
         spl_object_storage_addall(intern, getThis(), other);
       RETURN_LONG(zend_hash_num_elements(&intern->storage));
   /* !!! */
       /* [[[ proto bool SplObjectStorage::removeAll(SplObjectStorage Sos)
Remove all elements contained in Sos */
SPL_METHOD(SplObjectStorage, removeAll)
         rval *obj;
spl.SplObjectStorage *intern = 2_SPLOBJSTGRAGE_P(getThis());
spl.SplObjectStorage *other;
spl.SplObjectStorageElement *element;
         if (zond_parse_parameters(ZEND_NUM_ARGS(), "O", sobj, spl_ce_SplObjectStorage) -- FAILURE) {
         zend_hash_internal_pointer_reset_ex(sintern->storage, sintern->pos);
intern->index = 0;
         RETURN_LONG(zend_hash_num_elements(&intern->storage));
       /* [[[ proto bool SplObjectStorage::removeAllExcept(SplObjectStorage Sos)
Remove elements not common to both this SplObjectStorage instance and Sos */
SPL_METHOD(SplObjectStorage, removeAllExcept)
         rval *obj;
spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
spl_SplObjectStorage *other;
spl_SplObjectStorageElement *element;
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "O", &obj, spl_ce_SplObjectStorage) == FAILURE) {
         other = Z_SPLOBJSTORAGE_P(obj);
         ZEND_HASH_FOREACH_PTR(sintern->storage, element) {
  if (!spl_object_storage_contains(other, getThis(), selement->obj)) {
    spl_object_storage_detach(intern, getThis(), selement->obj);
}
         ) ZEND_HASH_FOREACH_END();
         zend_hash_internal_pointer_reset_ex{sintern->storage, sintern->pos};
intern->index = 0;
         RETURN_LONG(zend_hash_num_elements(&intern->storage));
       /* ([[ proto bool SplObjectStorage::contains(object obj)
Determine whethe an object is contained in the storage *,
SPL_METHOD(SplObjectStorage, contains)
        zval *obj;
spl_SplObjectStorage *intern = 2_SPLOBJSTORAGE_P(getThis());
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "o", &obj) == FAILURE) {
    return;
       557: RETURN_BOOL(spl_object_storage_contains()
558: ]/* ])] */
559:
550: /* ((( proto int SplObjectStorage::count()
561: Determine number of objects in storage */
562: SPL_NETROO(SplObjectStorage, count)
         spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
```

```
zend_long mode = COUNT_NORMAL;
                 if (zend_parse_parameters(ZEND_NUM_ARGS(), "|1", smode) == FAILURE) {
                   if (mode != COUNT_RECURSIVE) {
  ret = zend_hash_num_elements(sintern->storage);
} else {
  ret = php_count_recursive(sintern->storage);
}
                RETURN_LONG(zend_hash_num_elements(&intern->storage));
               /* [[[ proto void SplObjectStorage::rewind()
Rewind to first position */
SPL_METHOD(SplObjectStorage, rewind)
                  spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
                if (zend_parse_parameters_none() == FAILURE) {
   return;
             /* ((( proto bool SplObjectStorage::valid()
Returns whether current position is valid */
SPL_METHOD(SplObjectStorage, valid)
                  spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
                if (zend_parse_parameters_none() == FAILURE) {
   return;
613: 614: /* ([[ proto mixed SplObjectStorage::key() 615: Returns current key */ 616: SPL_METHOD(SplObjectStorage, key)
                 spl SplOblectStorage *intern = Z SPLOBJSTORAGE P(getThis()):
                if (zend_parse_parameters_none() == FAILURE) {
    return;
             /* ([[ proto mixed Spl0bjectStorage::current[
Returns current element */
SPL_METHOD(Spl0bjectStorage, current)
                spl_SplObjectStorageElement *element;
spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
                if (zend_parse_parameters_none() == FAILURE) {
   return;
                  ZVAL_COPY(return_value, selement->ob1);
             /* ([[ proto mixed SplObjectStorage::getInfo()
Returns associated information to current element */
SPL_METHOD(SplObjectStorage, getInfo)
                {
spl_SplObjectStorageElement *element;
spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
                if (zend_parse_parameters_none() == FAILURE) (
                 if ((element = zend_hash_get_current_data_ptr_ex(sintern->storage, sintern->pos)) == NULL) {
    return;
              /* [[[ proto mixed SplObjectStorage::setInfo(mixed Sinf) Sets associated information of current element to Sinf */
SPL METHOD(SplObjectStorage, setInfo)
                 spl_SplObjectStorageElement *element;
spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
zval *inf;
                                                 rse_parameters(ZEND_NUM_ARGS(), "z", &inf) == FAILURE) {
                If ((element = zend_hash_get_current_data_ptr_ex(&intern->storage, &intern->pos)) == NULL) {
    return;
             /* ([[ proto void SplObjectStorage::next()
Moves position forward */
SPL_METHOD(SplObjectStorage, next)
                  spl SplObjectStorage *intern = Z SPLOBJSTORAGE P(getThis()):
                if (zend_parse_parameters_none() == FAILURE) {
    return;
              /* ((( proto string SplObjectStorage::serialize()
Serializes storage */
SPL_METHOD(SplObjectStorage, serialize)
                 spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
                spl_SplObjectStorageElement *element;
zval members, flags;
HashPosition pos;
php_serialize_data_t var_hash;
smart_str buf = {0};
                 zend_hash_internal_pointer_reset_ex(sintern->storage, spos);
                 while (rend_hash_has_more_elements_ex(iintern->storage, &pos) == SUCCESS) {
   if ((clement = rend_hash_get_current_gata_ptr_ex(iintern->storage, &pos)) == NULL) {
        rend_hash_get_current_gata_ptr_ex(iintern->storage, &pos)) == NULL) {
        rend_hash_get_current_gata_ptr_ex(iintern->storage, &pos)) == NULL) {
        rend_hash_gata_ptr_ex(iintern->storage, &pos)) == NULL) {

                      )
php_var_sorialize(sbof, selement->obj, svar_hash);
smart_str_appendc(sbuf, ',');
php_var_sorialize(sbuf, selement->inf, svar_hash);
smart_str_appendc(sbuf, ',');
zend_hash_move_forward_ex(sintern->storage, spos);
                 /* members */
smart_str_append1(sbuf, "m:", 2);
                  ZVAL_ARR(smembers, zend_array_dup(zend_std_get_properties(getThis())));
php_war_serialize(sbuf, smembers, svar_hash); /* finishes the string */
zval_ptr_dtor(smembers);
                 if (buf.s) {
   RETURN_NEW_STR(buf.s);
                 ) else (
RETURN_NULL();
   751: /* [[[ proto void SplObjectStorage::unserialize(string serialized) 752: Unserializes storage */
```

```
ext/spl/spl_observer.c
                  753: SPL_METHOD(SplObjectStorage, unserialize)
754: {
                                                                  spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis())
                                                     char 'buf;
size_t buf_len;
size_t buf_len;
const unsigned char 'p, 's;
php_unserialize_data_t var_hash;
zval entry, infigrer;
zval rpoount, 'pmembers;
spl_BpiDopictorageMiement 'element;
zend_long count;
                                                                  if (zend_parse_parameters(ZEND_NUM_ARGS(), "s", sbuf, sbuf_len) == FAILURE) (
    return:
                                                               /* storage */
s = p = (const unsigned char*)buf;
PHP_VAR_UNSERIALIZE_INIT(var_hash);
                                                               poount = var_tmp_var(svar_hash);
if (!pp_var_unserialize(poount, sp, s + buf_len, svar_hash) || %_TYP%_P(poount) != IS_LONG) (
goto outscopt;
                                                                  ZVAL_UNDEF(sentry);
ZVAL_UNDEF(sinf);
                                                                               *+p;
if(*p != '0' && *p != 'C' && *p != 'r') {
    goto outexcept:
                                                                               /* store reference to allow cross-references between different elements */
if (!php_var_unserialize(sentry, &p, s + buf_len, &var_hash)) {
                                                                                     )
if (*p == ',') ( /* new version has inf */
                                                                                           ++p;
if (!php_var_unserialize(sinf, sp, s + buf_len, svar_hash)) {
    val_ptr_dtor(sentry);
    goto outexcept;
                                                                               pelement = spl_object_storage_get(intern, &key);
spl_object_storage_free_hash(intern, &key);
if (pelement) {
   if (!IZ_SINDEE(pelement->inf)) {
      var_push_dtor(&var_hash, &pelement->inf);
   }
}
                                                                               ]
alement = spl_object_storage_attach(intern, getfhis(), sentry, 2_ISUNDEF(int)?UULl:sinf);
Vur_replace(vur_hash, sentry, selement->obj);
Vur_replace(vur_hash, sentry);
Vur_replace(vur_hash, sentry);
Vur_replace(vur_hash);
Vur_re
                                                                  /* members */
if (*p!= 'm' || *++p != ':') {
    qoto outexcept;
                                                               pmembers = var_tmp_var(svar_hash);
if (!php_var_unserialIze(pmembers, sp, s + but_len, svar_hash) || 2_TYPE_P (pmembers) != IS_ARRAY) {
goto outsecget;
                                                                  /* copy members */
object_properties_load(&intern->std, Z_ARRVAL_P(pmembers));
                                                            outexcept:
PRO_VAN_DESENTALIZE_DESTROT(vor_heah);
zend_throw_exception_ex(spl_ce_DesepectedValueException, 0, "Error at offset ted of ted bytes", ((char*)p - buf), buf_len);
zent_throw_exception_ex(spl_ce_DesepectedValueException, 0, "Error at offset ted of ted bytes", ((char*)p - buf), buf_len);
zent_throw_exception_ex(spl_ce_DesepectedValueException, 0, "Error at offset ted of ted bytes", ((char*)p - buf), buf_len);
THE AMELINO (0, object)

371: IND. DRO. MAC. INFO. Karsyinfo_attach, 0, 0, 1)

880: IND. DRO. MAC. INFO. Karsyinfo_attach, 0, 0, 1)

880: IND. DRO. MAC. INFO. (b)ect)

881: IND. DRO. MAC. INFO. (c)ect

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884: IND. DRO. MAC. INFO. (c)ect

885: IND
                  900: ZEND_BEGIN_ARG_INFO(arginfo_splobject_void, 0)
901: ZEND_END_ARG_INFO()
                                                     static comst rand_function_antry spl_funcs_BplObjectStorage[] = {
    BFL_ME (BplObjectStorage, attach, arginfo_sttach, 0
    BFL_ME (BplObjectStorage, actach, arginfo_sttach, 0
    BFLME (BplObjectStorage, actach, arginfo_Bplot, 0
    BFLME (BplObjectStorage, actach, 0
    BFLME (BplObjectStorage, actach, 0
    BFLME (BplObjectStorage, ranovalliar agrinfo_Bplot, 0
    BFLME (BplObjectStorage, ranovalliar agrinfo_Bplot, 0
    BFLME (BplObjectStorage, ranovalliar agrinfo_Bplot, 0
    BFLME (BplObjectStorage, actach, arginfo_bplot, 0
    BFLME (BplObjectStorage, getHash, 2
    Countable y
    Cou
                                                                     SPL_ME (Spl0bjectStorage, count,
                                                                                                                                                                                                                                                                                                                                                            arginfo_splobject_void,0)
                                                                  /* Iterator */
**ELLME (EpilOmjectEtorage, rewind, arginfo.gplobject_void,0)

**BFLLME (EpilOmjectEtorage, valid, arginfo.gplobject_void,0)

**BFLLME (EpilOmjectEtorage, because the property of the property
                                                               /* Serializable */
SPL_ME(SplObjectStorage, unserialize, arginfo_Serialized, 0)
SPL_ME(SplObjectStorage, serialize, arginfo_splobject_void,0)
                                                            /*Arzykocas //
/*Arzykocas //
SR_DA(splot)pectorage, offsetExists, Splot)pectitorage, contains, arginfo_offsetCwt,
SR_DA(splot)pectorage, offsetExists, Splot)pectitorage, attach,
arginfo_offsetCwt,
SR_DA(splot)pectorage, offsetExists, Splot)pectitorage, attach,
arginfo_offsetCwt,
arginfo_offsetCwt
               939: #define SPL_MULTIPLE_ITERATOR_GET_ALL_CURRENT 1
940: #define SPL_MULTIPLE_ITERATOR_GET_ALL_KEY 2
```

```
if (zend_parse_parameters_throw(ZEND_NUM_ARGS(), "|1", &flags) == FAILURE) {
   return;
                                          intern = Z_SPLOBJSTORAGE_P(getThis());
intern->flags = flags;
                                    spl_SplObjectStorage *intern = Z_SPLOBJSTORAGE_P(getThis());
                                          if (zend_parse_parameters_none() == FAILURE) {
                                            }
RETURN_LONG(intern->flags);
                                    /* ((( proto int MultipleIterator::setFlags(int flags)
Set flags */
SPL_METHOD(MultipleIterator, setFlags)
                                          spl_SplObjectStorage *intern;
intern = Z_SPLOBJSTORAGE_P(getThis());
                                      if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", &intern->flags) == FAILURE) {
          983:
984: /* ((| proto woid attachlterator(Iterator iterator), mixed info)) throws invalidAryumentExc.
985: Attach a new Iterator /
986: $$\sqrt{2,\text{serior}}$ deviation in the action of the acti
                                          spl_SplObjectStorage *intern;
zval *iterator = NULL, *info = NULL;
                                            if (zend_parse_parameters(ZEND_NUM_ARGS(), "O|x!", siterator, zend_ce_iterator, sinfo) -- FAILURE) return;
                                          if (info != NULL) {
   spl_SplObjectStorageElement *element;
                                                   if (Z_TYPE_P(info) != IS_LONG && Z_TYPE_P(info) != IS_STRING) {
   zend_throw_exception(spl_ce_InvalidArgumentException, "Info must be NULL, integer or string", 0);
                                                   zend_hash_internal_pointer_reset_ex(intern->storage, sintern->pos);
while (element = zend_hash_get_current_data_pet_ex(intern->torage, sintern->pos)) != NULL) {
   if (zast_a_text_inial_function(info, selement-reinfo) |
        zend_throw_exception(spl_ow_invalidaryumentException, "Eavy deplication error", 0);
        zeturn)
  salis (sement - isot_ham, pet_current)

1009: if (real_is_identica_fuent) intro, is
1008: rend_throw_sception(spl_cs_travalidat
1008: rend_throw_sception(spl_cs_travalidat
1008: rend_throw_sception(spl_cs_travalidat
1001: rend_throw_sception(
                                                                  }
zend_hash_move_forward_ex(sintern->storage, sintern->pos);
                                          spl_object_storage_attach(intern, getThis(), iterator, info);
                                          intern = Z SPLOBJSTORAGE P(getThis()):
                                          if (zend_parse_parameters_none() == FAILURE) {
   return;
                                          zed_hash_internal_pointer_reset_ex(sintern->storage, sintern->pos);
while (clement = sed_hash_get_current_data_pet_ex(sintern->storage, sintern->pos)) != NULL st !BC(exception)) {
    t = telement-Only}
    zed_call_pethod_with_garams(it, Z_OBNE_P(it), Z_CBNE_P(it)) -> iterator_funcs.zf_rewind, "rewind", NULL);
    zed_plash_nown_Crowned_ex(sintern->storage, sintern->pos);
      intern = Z_SPLOBJSTORAGE_P(qetThis());
                                          if (zend_parse_parameters_none() == FAILURE) (
   return;
                                          red_hash_internal_pointer_reset_ex(intern-storage, sintern-spos);
while ((element = lend_hash_get_current_data_pet_ex(intern-storage, sintern-spos)) != NULL is !EX(exception)) {
    t = element-orbit}
    lead_hash_get_current_data_pet_ex(intern-storage, sintern-spos)) != NULL is !EX(exception)) {
    l = element-orbit}
    lead_hash_get_current_data_pet_extern-storage, sintern-spos);
    lead_hash_get_current_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externet_externe
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                                            if (zend_parse_parameters_none() == FAILURE) {
   return;
                                          rend_hash_internal_pointer_reset_ex(intern->storage, sintern->pos);
while (elsement = rend_hash_get_current_data_ptt_ex(sintern->storage, sintern->pos)) != NULL ss !EX(exception)) {
    it = selement->hash;
    zend_call_nethod_with_0_params(it, Z_CBXCR.P(it)), sz_CBXCR.P(it)>>iterator_funcs.zt_valid, "walid", sretval);

                                              zend_hash_move_forward_ex(&intern->storage, &intern->pos);
                                            array_init_size(return_value, num_elements);
                                                   if (!Z_ISUNDEF(retval)) {
  valid = Z_TYPE(retval) == IS_TRUE;
```

```
| 1135 | val.pfr_dror(rarval); | 1136 | val.pfr_dror(rarval); | 1136 | val.pfr_dror(rarval); | 1136 | val.pfr | val.
                                                                                              if (void) |
i
                                                                                                                        if (Z_ISUMDEF(retval)) {
    rend_three_exception(spl_ce_RuntimeException, "Failed to call sub iterator method", 0);
    return;
                                                                                              )
| size if (intern-yliags & MIT_NEED_ALL) (
| if (MET_MONITHE_ITERADO_GET_ALL_COMBERT == qet_type) (
| seed_threw_competin(spl_a_det_minimakeceptic, "Called current() with non valid sub iterator", 0);
| rest_threw_exception(spl_ce_MoniteeException, "Called key() with non valid sub iterator", 0);
| rest_threw_exception(spl_ce_MoniteeException, "Called key() with non valid sub iterator", 0);
                                                                                           ilsz: infern = Z_SPLON-SYTONAGE_P(getTria());
ll88: if (zend_parse_parameters_none() == FAILURE) {
    return;
ll86: spl_multiple_iterator_get_all(intern, SPL_MULT)

                                                                            spl_multiple_iterator_get_all(intern, SPL_MULTIPLE_ITERATOR_GET_ALL_CURRENT, return_value);
                     1191: |*
1192: |* ([[ proto array MultipleIterator::key()
1193: | Return an array of all registered Iterator instances key() result */
1194: SPL MATHORO(MultipleIterator, key)
                                                                                spl_SplObjectStorage *intern;
intern = Z_SPLOBJSTORAGE_P(getThis());
                                                                            if (zend_parse_parameters_none() == FAILURE) (
                                                                            spl_multiple_iterator_get_all(intern, SPL_MULTIPLE_ITERATOR_GET_ALL_KEY, return_value);
              1203: spl_multiple_iterator_set_all(intern, SPL_MULTIPLE_ITERATOR_SET_ALL_REY
1205: / ' | | / '
1205: / ' | | / '
1205: / ' | | / '
1205: MED_ANG_SET_AND_SET_AND_SET_AND_SET_AND
1207: MED_ANG_SET_AND_SET_AND
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1207: MED_ANG_SET_AND
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1210: IND_SET_AND_SET_AND
1210: IND_SET_AND_SET_AND
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          ARROLDM. INVO; iterator, iterator, 0)

1114: IND. BO. JAC. INVO; iterator, iterator, 0)

1114: IND. BO. JAC. INVO; iterator, iterator, 0)

1117: IND. BO. JAC. INVO; iterator, iterator, 0

1117: IND. BO. JAC. JAC. INVO; iterator, iterator, 0

1117: IND. BO. JAC. JAC. INVO; iterator, iterator, 0

1118: IND. BO. JAC. JAC. INVO; iterator, 10

1119: IND. JAC. INVO; iterator, 10

1120: IND. JAC. INVO; iterator, 10

1121: IND. JAC. INVO; iterator, 10

1122: IND. JAC. INVO; iterator, 10

1123: IND. JAC. INVO; iterator, 10

1124: IND. JAC. INVO; iterator, 10

1125: IND. JAC. INVO; iterator, 10

1126: IND. JAC. INVO; iterator, 10

1276: IND. JAC. INVO; iterator, 10

1277: IND. JAC. IND. JAC. INVO; iterator, 10

1278: IND. JAC. IND. JAC. INVO; iterator, 10

1279: IND. JAC. IND. JAC. INVO; iterator, 10

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          STL-SE STL-SE SUBSTITUTE AND ADMITSTANCE OF THE STATE OF THE STL-SE STL-
                                                                                    REGISTER_SPL_STD_CLASS_EX(SplObjectStorage, spl_SplObjectStorage_new, spl_funcs_SplObjectStorage);
memcpy(sspl_handler_SplObjectStorage, zend_get_std_object_handlers(), sizeof(zend_object_handlers));
                                                                            spl.hamdier_SplObjectStorage.orfset
spl.hamdier_SplObjectStorage.orfset
spl.hamdier_SplObjectStorage.orfset
spl.hamdier_SplObjectStorage.orgset_objects
spl.hamdier_SplObjectStorage.clome_obj
spl.hamdier_SplObjectStorage.clome_obj
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spl.hamdier_SplObjectStorage.org.cg
spl.hamdier_SplObjectStorage.org.cg
spl.hamdier_SplObjectStorage.org.cb
spl.hamd
                                                                                REGISTER_SPL_IMPLEMENTS(SplObjectStorage, Countable);
REGISTER_SPL_IMPLEMENTS(SplObjectStorage, Iterator);
REGISTER_SPL_IMPLEMENTS(SplObjectStorage, Serializable);
REGISTER_SPL_IMPLEMENTS(SplObjectStorage, ArrayAccess);
                                                                                    REGISTER_SPL_STD_CLASS_EX(MultipleIterator, spl_SplObjectStorage_new, spl_funcs_MultipleIterator);
REGISTER_SPL_ITERATOR(MultipleIterator);
                                                                                    RECISTER_SPL_CLASS_CONST_LOWS (MultipleIterator, "MIT_MED_ANY", MIT_MED_ANY);
RECISTER_SPL_CLASS_CONST_LOWS (MultipleIterator, "MIT_MED_ALL", MIT_MED_ALL');
RECISTER_SPL_CLASS_CONST_LOWS (MultipleIterator, "MIT_MET_MASSOC", MIT_MET_MEDERCH);
RECISTER_SPL_CLASS_CONST_LOWS (MultipleIterator, "MIT_MET_ASSOC", MIT_MET_ASSOC);
                                                                                return SUCCESS;
```

```
| Copyright (c) 1997-2018 The PHP Group
     18:
19: /* $Id$ */
20:
21: #ifdef HAVE
        43: #define SPL_LLIST_DELREF(elem) if(!--(elem)->rc) { \
        48: #define SPL_LLIST_CHECK_DELREF(elem) if((elem) && !--(elem)->rc) { \
       54:

55: Medine SPL_DILISI_I_DELETE 0x00000001 /* Delete flay makes the iterator delete the current element on next */

56: Medine SPL_DILISI_I_DELETE 0x00000002 /* LIFO flag makes the iterator traverse the structure as a LastInFirstOut */

57: Medine SPL_DILISI_I_DELETE 0x00000003 /* Mask to isolate flags related to iterators */

58: Medine SPL_DILISI_I_DELETE 0x00000003 /* Mask to isolate flags related to iterators */

58: Medine SPL_DILISI_I_DELETE 0x000000004 /* Mask variefforward bit is fixed */
 63: typedef struct _spl_ptr_lif
65: struct _spl_ptr_lifst_ele
66: struct _spl_ptr_lifst_ele
67: int
68: zval
69: j spl_ptr_lifst_element;
       70: Typedef void (*spl_ptr_llist_dtor_func)(spl_ptr_llist_element *);72: typedef void (*spl_ptr_llist_ctor_func)(spl_ptr_llist_element *);
  74: typeds struct_spl_ptr_llist_
74: typeds struct_spl_ptr_llist_olement *head;
76: spl_ptr_llist_olement *tail;
76: spl_ptr_llist_dtor_func dtor;
78: spl_ptr_llist_ctor_func ctor;
78: at_count;
80: } spl_ptr_llist;
81:
    82: typedef struct _spl_dllist_object spl_dllist_object;
83: typedef struct _spl_dllist_it spl_dllist_it;
 Si tymode struct _pp__dilsc_tt sp__dilsc_tt.

Si struct _pp__dilsc_tbe_ct.

Si struct _pp__dilsc_tbe_ct.

Si struct _pp__dilsc_tbe_ct.

Si sp__ter__list _ tilsc_

Si sp__ter__list_cbe_ct.

Si sp__ter_
 99: j;
101: "define an overloaded iterator structure "/
101: "feetine an overloaded iterator structure "/
101: struct_spl_dilist_it (
101: rand_user_iterator interm;
101: pi_pt_rilist_element "travvers_pointer;
105: int travvers_pointion;
106: int flags;
108: state inline and dilier fother "seed dilier for
  109: static inline spl_dllist_object *spl_dllist_from_obj(zend_object *obj) /* {/{/ */}}
110: return (spl_dllist_object*)((char*)(obj) - XtOffsetOf(spl_dllist_object, std));
 111: |
12: /* | | | */
113: |
114: #define 2_SPLOLLIST_P(zv) spl_dllist_from_obj(2_OBJ_P((zv)))
                              if (!Z_ISUNDEF(elem->data)) {
  zval_ptr_dtor(selem->data);
  zvAL_UNDEF(selem->data);
  spl_ptr_llist *llist = emalloc(sizeof(spl_ptr_llist));
.-__cr_liist_cou
14/: {
148: return (zend_long)llist->count;
149: }
150: /* !!! *'
  151:
152: static void spl_ptr_llist_destroy(spl_ptr_llist *llist) /* ((( */
153: (
                    spl_ptr_llist_element *current = llist->head, *next;
spl_ptr_llist_dtor_func dtor = llist->dtor;
                      while (current) {
  next = current->next;
  if (dtor) {
    dtor(current);
}
                          }
SPL_LLIST_DELREF(current);
current = next;
while (current is pos < offset) {
  pos+;
  if (backward) {
    current = current->prev;
  } else {
    current = current->next;
  }
```

```
spl_ptr_llist_element *elem = emalloc(sizeof(spl_ptr_llist_element));
203:
204: if (llist->head) (
205: llist->head->prev = elem;
206: ) else (
              -- /nead) (
llist->head->prev =
) else (
llist->tail = elem;
)
              static void spl_ptr_llist_push(spl_ptr_llist *llist, zval *data) /* ((( *)
                  spl_ptr_llist_element *elem = emalloc(sizeof(spl_ptr_llist_element));
 Z21: api_ptr_lint_element *elem = emailo

222: elem->rc = 1;

224: elem->prev = lint->tail;

225: elem->next = NULL;

226: zVAL_COPY_VALUE(selem->data, data);

227:
 227:
228: if (llist->tail) {
229: llist->tail->next = elem;
230: } else {
231: llist->head = elem;
232: }
 233:
234: llist->tail = elem;
235: llist->count++;
236:
              if (llist->ctor) (
    llist->ctor(elem);
              static void spl_ptr_llist_pop(spl_ptr_llist *llist, zval *ret) /* ((( */
                if (tail->prev) {
  tail->prev->next = NULL;
} else {
  llist->head = NULL;
}
                llist->tail = tail->prev;
llist->count--;
ZVAL_COPY(ret, stail->data)
 Jackie Vol. "pl.pt_list_aktop_pt_list

274; spj.pt_list_akement "tail = list->tail;

275; ff (tail = NULL) (

277; return NULL;

277; return NULL;

277; joins (list) (lis
    zos:
284: static zval *spl_ptr_llist_first(spl_ptr_llist *llist) /* ({{ */
              spl_ptr_llist_element *head = llist->head;
 zs/:
288: if (head == NULL) {
289: return NULL;
290: } else {
291: return &head->data;
292: }
293: }
  2991; /- || | / |
2991; /- || | | / |
2995; static wold spl.gtr_llist_shift(spl.gtr_llist *llist, zval *rot) /* ({{ */ }} */ |
              if (head->next) {
  head->next->prev = NULL;
} else {
  llist->tail = NULL;
 314:

315: if (llist->dtor) {

316: llist->dtor(head);

317: }

318: ZVAL_UNDEF(&head->dat

319:

320: SPITTOR --
                }
ZVAL_UNDEF(&head->data);
                SPL_LLIST_DELREF(head);
              spl_ptr_llist_push(to, &current->data);
current = next;
}
              static void spl_dllist_object_free_storage(zend_object *object) /* {{{ */
                spl_dllist_object *intern = spl_dllist_from_obj(object);
zval tmp;
                zend_object_std_dtor(&intern->std);
                while (intern->llist->count > 0) {
   spl_ptr_llist_pop(intern->llist, stmp);
   zval_ptr_dtor(stmp);
                spl_ptr_llist_destroy(intern->llist);
SPL_LLIST_CHECK_DELREF(intern->traverse_pointer);
             zend_object_iterator *spl_dllist_get_iterator(zend_class_entry *ce, zval *object, int by_ref);
              static zend_object *spl_dllist_object_new_ex(zend_class_entry *class_type, zval *oriq, int clone_oriq) /* {{{ ( * '
                 intern = zend_object_alloc(sizeof(spl_dllist_object), parent);
```

```
zend_object_std_init(&intern->std, class_type);
object_properties_init(&intern->std, class_type)
                                   intern->flags = 0;
intern->traverse_position = 0;
                                       if (clome_orig) {
   intern-llist = (spl_ptr_llist *)spl_ptr_llist_init(other->llist->ctor, other->llist->dtor);
   spl_ptr_llist_copy(other->llist, intern->llist);
   intern-rtrawrsa_pointer = intern->llist->head;
   sl_llist_Copy(other->llist > intern->llist->head;
   intern->llist = other->llist;
   intern->llist = other->llist;
   intern->trawrsa_pointer = intern->llist>head;
   intern->llist = other->llist;
   intern->llist = other->llist = othe
                                           intern-yflags = other-yflags;
alse {
   intern-yflags = (spl.ptr_llist ')spl.gtr_llist_init(spl.gtr_llist_xval_ctor, spl.ptr_llist_xval_dtor);
intern-yflast = (spl.ptr_llist ')spl.gtr_llist_init(spl.gtr_llist_xval_ctor, spl.ptr_llist_xval_dtor);
intern-yflags = (spl.gtr_llist_xval_choff);
intern-yflags = (spl.gtr_llist_xval
                              while (parent) {
   if (parent = spl_ce_SplStack) {
    intern-ord_lags i= (SPL_DLLIST_IT_FIX | SPL_DLLIST_IT_LIFO);
    intern-ord_handlers = spip_handler_SplToublyLinkedList;
    isles if sparent = spl_ce_SplToubly
    intern-ord_handlers = lags_DloublyLinkedList;
   intern-ord_handlers = lspl_handler_SplToublyLinkedList;
}
                                           if (parent == spl_ce_SplDoublyLinkedList) (
  intern->std.handlers = sspl_handler_SplDoublyLinkedList;
  break;
                                   if (!parent) { /* this must never happen */
php_error_docref(NULL, E_COMPILE_ERROR, "Internal compiler error, Class is not child of SplDoublyLinkedList");
                                           if (inherited) {
  inter-ofptr_offset_get = zend_hash_str_find_ptr(sclass_type>function_table, "offsetget", sizeof("offsetget") = 1);
  if (inter-ofptr_offset_get = Nonline
  inter-ofptr_offset_get = Nonline
  inter-ofptr_offset_get = Nonline

                                           ]
interm-Yptr_offset_set = send_hash_str_find_ptr(sclass_type>>function_table, 'offsetset', sizeof('offsetset') = 1);
if (interm-Yptr_offset_set = NULL)
interm-Yptr_offset_set = NULL)
                                           ]
interm->fptr_offset_has = zend_hash_str_find_ptr(sclass_type->function_table, "offsetexists", sizeof("offsetexists") - 1);
if (interm->fptr_offset_has ->common.scope == parent) {
    interm->fptr_offset_has = NULL;
}
                                           | intern-tptr_offset_dsi = rend_hash_str_find_ptr(sclass_type>function_table, "offsetumset", sizeof("offsetumset") - l);
if (intern-tptr_offset_dsi) = Online of the sizeof ("offsetumset") - l);
intern-tptr_offset_dsi = Nolline of the sizeof ("offsetumset") - l);
                                           ]
interm->fptr_count = zend_hash_str_find_ptr(sclass_type->function_table, "count", sizeof("count") - 1);
if (intern->fptr_count = NULT, count = NULT, count
                              zend_object *old_object;
zend_object *new_object;
                                old_object = Z_OBJ_P(zobject);
new_object = spl_dllist_object_new_ex(old_object->ce, zobject, 1);
                              zend_objects_clone_members(new_object, old_object);
                              return new_object;
                          static int spl_dllist_object_count_elements(zval *object, zend_long *count) /* ((( */
                                spl_dllist_object *intern = Z_SPLDLLIST_P(object);
                                if (intern->fptr_count) {
                                       TFAL TY;

STAL TY;

SEND_CALL_DEFORM_CALL_DEFORMS (object, intern->std.cs, &intern->fptr_count, "count", &rv);

if (L_SUMDEF(rv)) (

*count = rval_pst_log(stv);

rval_ptr_dfor(stv);

rval_ptr_dfor(stv);

return SDCCEd;
                                   *count = spl_ptr_llist_count(intern->llist);
return SUCCESS;
                            static HashTable* spl_dllist_object_get_debug_info(zval *obj, int *is_temp) /* (((( */
                              spl_dilist_object *intern = %_SPLDLIST_P(obj);
spl_grt_llist_obsent *current = intern->llist->head, *next;
read_string *pnatr;
int i = 0;
mainTable *debug_info;
**is_temp = 1;
**is_temp 
                                debug_info = zend_new_array(1);
zend_hash_copy(debug_info, intern->std.properties, (copy_ctor_func_t) zval_add_ref);
                                postr = spi_gen_private_prog_name(spi_ce_SpiDoublyLinkedList, "flags", sizeof("flags")-1);
TVL_CONFoctume, intern-flags);
zend_bash_add(debug_into, postr, stmp);
zend_bash_add(debug_into, postr, stmp);
                                array_init(sdllist_array);
                                while (current) (
  next = current->next;
                                       add_index_zval(sdllist_array, i, scurrent->data);
if (2_REFCOUNTED(current->data)) {
   Z_ADDREF(current->data);
                                pnstr = spl_gen_private_prop_name(spl_ce_SplDoublyLinkedList, "dllist", sizeof("dllist")-1);
zend_hash_add(dabug_info, pnstr, &dllist_array);
zend_string_reloase(pnstr);
                            static HashTable *spl_dllist_object_get_gc(zval *obj, zval **gc_data, int *gc_data_count) /* ((( */
                              {
spl_dllist_object *intern = Z_SPLDLLIST_P(obj);
spl_ptr_llist_element *current = intern->llist->head;
int i = 0;
                                   *gc_data = intern->gc_data;
*gc_data_count = i;
return zend_std_get_properties(obj);
560:
561: /* [[[ proto bool SpiDoublyLinkedList::push(mixed value, 562: Push Svalue on the SpiDoublyLinkedList */ 563: SPL_METHOD(SpiDoublyLinkedList, push) 564: [
```

```
zval *value;
spl_dllist_object *intern;
                     RETURN_TRUE;
580: Unshift Svalue on the SpiDoublyLinkedList *,
581: SPL_METHOD(SpiDoublyLinkedList, unshift)
                     zval *value;
spl_dllist_object *intern;
                     if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", svalue) == FAILURE) {
    return;
                     intern = Z_SPLDLLIST_P(getThis());
spl_ptr_llist_unshift(intern->llist, value);
                     RETURN_TRUE;
                 spl_dllist_object *intern;
                     intern = Z_SPLDLLIST_P(getThis());
spl_ptr_llist_pop(intern->llist, return_value);
                     if (Z_ISUNDEF_P(return_value)) {
    zend_throw_exception(spl_ce_RuntimeException, "Can't pop from an empty datastructure", 0);
    RETURN_UNL();
Size server_Monin()

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(
                       spl_dllist_object *intern;
                     intern = Z_SPLDLLIST_P(getThis());
spl_ptr_llist_shift(intern->llist, return_value);
                     if (Z_ISUNDEF_P(return_value)) {
    zend_throw_exception(spl_ce_RuntimeException, "Can't shift from an empty datastructure", 0);
    servies NULL():
630: If (Q_ISUNDEF_F(return_value)) (
511: zend_trow_exception(spl_ce_BuntiseException, "Can't sh
522: RETURN_NEL();
534: |
544: |
545: /* || /* |
547: || /* || /* |
548: || /* || /* || /* |
548: || /* || /* || /* |
548: || /* || /* || /* |
549: SPL_MENOO(SplloublyLinkedList.top) (
549: SPL_MENOO(SplloublyLinkedList, top) (
549: SPL_MENOO(SplloublyLinkedList, top) (
540: || /* || /* || /* |
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                       intern = Z_SPLDLLIST_P(getThis());
value = spl_ptr_llist_last(intern->llist);
                     if (value == NULL || Z_ISUNDEF_P(value)) {
    zend_throw_exception(spl_ce_RuntimeException, "Can't peek at an empty datastructure", 0);
    return.
                     ZVAL_DEREF(value);
ZVAL_COPY(return_value, value);
                 /* {{{ proto mixed SpiDoublyLinkedList::bottom()
    Peek at the bottom element of the SpiDoublyLinkedList */

SPL METROD(SolDoublyLinkedList. bottom)
                     zval *value;
spl_dllist_object *intern;
                     if (zend_parse_parameters_none() == FAILURE) (
   return:
                     intern = Z_SPLDLLIST_P(getThis());
value = spl_ptr_llist_first(intern->llist);
                     if (value == NULL || 2_ISONDEP_P(value)) (
  zend_throw_exception(spl_ce_NuntimeException, "Can't peek at an empty datastructure", 0);
  return; )
                       zend_long count;
spl_dllist_object *intern = 2_SPLDLLIST_P(getThis());
                     if (zend_parse_parameters_none() == FAILURE) (
   return;
                  /* ((( proto int SplDoublyLinkedList::isEmpty()
Return true if the SplDoublyLinkedList is empty. */
SPL_METHOD(SplDoublyLinkedList, isEmpty)
                       zend_long count;
                     if (zend_parse_parameters_none() == FAILURE) {
                        spl_dllist_object_count_elements(getThis(), &count);
RETURN_BOOL(count == 0);
                 /* ((( proto int SpiDoublyLinkedList::setIteratorMode(int flags)
Set the mode of iteration */
SPL_METHOD(SpiDoublyLinkedList, setIteratorMode)
','
                       zend_long value;
spl_dllist_object *intern;
                     if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", svalue) -- FAILURE) {
    return;
                     If (inveneratings a SE_NILITE_TE_TE)
at (interest-large as SE_NILITE_TE_TE) = (value & SEL_NILITE_TE_TE)) (
seed_three_seception(spl_ce_BuntimeException, "Tissates" LIFO/FIFO modes for SplStack/SplQuese objects are frozen", 0)
return)
                       intern->flags = (value & SPL_DLLIST_IT_MASK) | (intern->flags & SPL_DLLIST_IT_FIX);
                     spl_dllist_object *intern;
                     intern = Z_SPLDLLIST_P(getThis());
```

```
ext/spl/spl_dllist.c
         RETURN_LONG(intern->flags);
       /* ((( proto bool SpiDoublyLinkedList::offsetExists(mixed index)
Returns whether the requested Sindex exists. */
SPL_METHOD(SpiDoublyLinkedList, offsetExists)
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", szindex) == FAILURE) {
    return;
         intern = Z_SPLDLLIST_P(getThis());
index = spl_offset_convert_to_long(zindex);
         RETURN_BOOL(index >= 0 && index < intern->llist->count);
        /* ((( proto mixed SpiDoublyLinkedList::offsetGet(mixed index)
Returns the value at the specified Sindex. */
SPL_METHOD(SpiDoublyLinkedList, offsetGet)
         zval *zindex;
zend_long index;
spl_dllist_object *intern;
spl_ptr_llist_element *element;
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", szindex) -- FAILURE) {
         intern = Z_SPLDLLIST_P(getThis());
index = spl_offset_convert_to_long(zindex);
         if (index < 0 || index >= intern->llist->count) {
   zend_throw_exception(spl_ce_OutOfRangeException, "Offset invalid or out of range", 0);
   return:
         element = spl_ptr_llist_offset(intern->llist, index, intern->flags & SPL_DLLIST_IT_LIFO);
         if (element != NULL) (
zval *value = selement->data;
            ZVAL_DEREF(value);
ZVAL_COPY(return_value, value);
             else {
zend_throw_exception(spl_ce_OutOfRangeException, "Offset invalid", 0);
        /* {{{ proto void SplDoublyLinkedList::offsetSet(mixed index, mixed newval)
Sets the value at the specified Sindex to Snewval. */
SPLMETBO(SplDoublyLinkedList, offsetSet)
         zval *zindex, *value;
spl_dllist_object *intern;
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "zz", &zindex, &value) == FAILURE) {
         intern = Z_SPLDLLIST_P(getThis());
         if (Z_TYPE_P(zindex) == IS_NULL) {
         /* Sobj[] = ... */
spl_ptr_list_push(intern->llist, value);
} else {
/* Sobj[Sfoo] = ... */
             zend_long index;
spl_ptr_llist_element *element;
           index = spl_offset_convert_to_long(zindex);
            if (index < 0 || index >= intern->llist->count) {
    rend_throw_exception(spl_ce_OutOfRangeException, "Offset invalid or out of range", 0);
           if (element != NULL) {
    *call dror on the old element as in spl_ptr_llist_pop */
    if (intern->llist->dtor) {
        intern->llist->dtor(element);
    }
               /* the element is replaced, delref the old one as in 
 *SplOoublyLinkedList:upp() */ 
 rval_ptr_dtor(selement->data); 
 rval_corv_VALUE(selement->data, value);
              /* new element, call ctor as in spl_ptr_llist_push */
if (intern->llist->ctor) (
   intern->llist->ctor(element);
                ]
else {
zwal_ptr_dtor(value);
zwad_throw_exception(spl_ce_OutOfRangeException, "Offset invalid", 0);
return;
         zval *zindex;
zend_long index;
spl_dllist_object *intern;
spl_ptr_llist_element *element;
spl_ptr_llist *llist;
         intern = Z_SPLDLLIST_P(getThis());
index = spl_offset_convert_to_long(zindex);
llist = intern->llist;
         if (index < 0 || index >= intern->llist->count) {
   zend_throw_exception(spl_ce_OutOfRangeException, "Offset out of range", 0);
         element = spl_ptr_llist_offset(intern->llist, index, intern->flags & SPL_DLLIST_IT_LIFO);
         if (element != NULL) {
    /* connect the neightbors */
    if (element->prev) {
      element->prev->next = element->next;
}
           if (element->next) (
   element->next->prev = element->prev;
            /* finally, delete the element */
llist->count--;
            if(llist->dtor) {
    llist->dtor(element);
           if (intern->traverse_pointer == element) {
   SPL_LLIST_DELREF(element);
   intern->traverse_pointer = NULL;
            static void spl_dllist_it_dtor(zend_object_iterator *iter) /* ((( */
         spl_dllist_it *iterator = (spl_dllist_it *)iter;
        SPL_LLIST_CHECK_DELREF(iterator->traverse_pointer);
                                                                                                ent **traverse_pointer_ptr, int *traverse_position_ptr, spl_ptr_llist *llist, int flags) /* (
938: {
939: SPL_LLIST_CHECK_DELREF(*traverse_pointer_ptr);
```

```
if (flags & SPL_DILIST_IT_LIFO) {
    traverse_position_ptr = llist->count-1;
    traverse_pointer_ptr = llist->tail;
} else {
        traverse_position_ptr = 0;
        traverse_pointer_ptr = llist->head;
}
                                  if (flags & SPL_DLLIST_IT_LIFO) {
   *traverse_pointer_ptr = old->prev;
   (*traverse_position_ptr)--;
                                            if (flags & SPL_DLLIST_IT_DELETE) {
  zval prev;
  spi_ptr_llist_pop(llist, &prev);
                                                       zval_ptr_dtor(sprev);
                                             if (flags & SPL_DLLIST_IT_DELETE) {
  zval prev;
  spl_ptr_llist_shift(llist, &prev);
                                    SPL_LLIST_DELREF(old);
SPL_LLIST_CHECK_ADDREF(*traverse_pointer_ptr);
                          static void spl_dllist_it_rewind(zend_object_iterator *iter) /* {{{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  */{{}}  *
                             spl_dllist_it_helper_rewind(siterator->traverse_pointer, siterator->traverse_position, llist, object->flags)
                          static int spl_dllist_it_valid(zend_object_iterator *iter) /* ((( *)
                          spl_dllist_it *iterator = (spl_dllist_it *)iter;
spl_ptr_llist_element *element = iterator->traverse_pointer;
   1002: return (element != NULL ? SUCCESS : FAILURE);
1003: )
    1005: static zval *spl_dllist_it_get_current_data(zend_object_iterator *iter) /* {{{ */ }
   1008: spl_dllist_it *iterator = (spl_dllist_it *)iter;
1008: spl_prr_llist_element *element = iterator>traverse_pointer;
                             if (element == NULL || 2_ISUNDEF(element->data)) {
   return NULL;
                             return selement->data;
   1019: ** 11 - ** 1019: 1019: static wold spl_dllist_it_get_current_key(rend_object_iterator *iter, zval *key) /* {{{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}'}} {{{}
                             spl_dllist_it *iterator = (spl_dllist_it *)iter;
   1026:
1027: static void spl_dllist_it_move_forward(zend_object_iterator *iter) /* {{{ * /{ * / * }}}
                             spl_dllist_it *iterator = (spl_dllist_it *)iter;
spl_dllist_object *object = 2_SPLDLLIST_P(&iter->data);
                             zend_user_it_invalidate_current(iter);
                           spl_dllist_it_helper_move_forward(siterato
 103: /* ({( proto int SplDoublyLinkedList::key() 1038: /* ({( proto int SplDoublyLinkedList::key() 1040: SPL_METHOD(SplDoublyLinkedList, key) 1041: {
1042: apl_dlist_object *intern = 2_SPLDLLIST_P(: 1043: apl_dlist_object *intern = 2_SPLDLLIST_Object *intern = 2_SPLDLIST_Object *intern = 2_S
                             spl_dllist_object *intern = Z_SPLDLLIST_P(getThis());
 1044: if (zend_parse_parameters_none() -- FAILURE) {
1045: return;
1046: }
                          RETURN_LONG(intern->traverse_position);
   1053: Move to next entry */
1054: SPL_METHOD(SplDoublyLinkedList, prev)
1055: (
                               spl_dllist_object *intern = Z_SPLDLLIST_P(qetThis());
                             if (zend_parse_parameters_none() == FAILURE) (
   100:1
100:1 spl_dllist_it_belper_move_forward(sintern->traverse_pointer, sintern->traverse_position, intern->llist, intern->liags * SPL_BLIST_IT_LIFO)
100:1 |
100:1 |
 1065: | ///
1065: / ([[ proto void SplDoublyLinkedList::next()
1067: Move to next entry */
1068: SPL_METHOD(SplDoublyLinkedList, next)
1069: [
1070: spl_dlist_object *intern = Z_SPLDLLIST_P(g
                             spl_dllist_object *intern = Z_SPLDLLIST_P(getThis());
 1079:
1080: /* ([[ proto bool SpiDoublyLinkedList::valid()
1081: Check whether the datastructure contains more entries */
1082: SPL_METHOD(SpiDoublyLinkedList, valid)
   1092: " | | | " /
1093: " | | | | " /
1094: " | (| | proto void SplDoublyLinkedList::rewind()
1095: Rewind the datastructure back to the start " /
1096: SPL_METHOD (SplDoublyLinkedList, rewind)
1097: [
                             {
   spl_dllist_object *intern = Z_SPLDLLIST_P(getThis());
                             if (zend_parse_parameters_none() -- FAILURE) {
                             spl_dllist_it_helper_rewind(sintern->traverse_pointer, sintern->traverse_position, intern->llist, intern->flags);
if (element == NULL || 2_ISUNDEF(element->data)) {
   RETURN_NULL();
} else {
   zval value = telement->data;
```

```
1129: /- // // proc string SpiRoublyLinkedList:see
1130: /- // // proc string SpiRoublyLinkedList:see
1131: Sar_Marmool(SpiRoublyLinkedList, serialize)
1132: Sap_List_Spict *io***
1134: Sap_List_Spict *io***
1134: Sap_List_Spict
              [ spl_dilist_object *intern = %_SFLOLLIST_F(getThis()); snart_str buf = (0); spl_fst_llist_element *current = intern->list->head, *next; rval tilags; php_sorialize_dat_t var_hah;
               /* done */
PHP_VAR_SERIALIZE_DESTROY(var_hash);
              if (buf.s) {
   RETURN_NEW_STR(buf.s);
} else {
   RETURN_NULL();
}
  1175: Unserializes storage */
1176: SPL_METHOD(SplDoublyLinkedList, unserialize)
              spl_dllist_object *intern = z_SPLDLLIST_P(getThis());
zval *flags, *elem;
char *buf;
size_t buf_len;
const unsigned char *p, *s;
php_unserialize_data_t var_hash;
              if (zend_parse_parameters(ZEND_NUM_ARGS(), "s", &buf, &buf_len) == FAILURE) {
               s = p = (const unsigned char*)buf;
PHP_VAR_UNSERIALIZE_INIT(var_hash);
                /* flags */
flags = var_tmp_var(svar_hash);
if (iphp_var_unserialize(flags, up, s + buf_len, svar_hash) || Z_TYPE_P(flags) !- IS_LOWS) {
gots error;
                /* elements */
while(*p -- ':') {
                   var_push_dtor(svar_hash, elem);
               spl_ptr_llist_push(intern->llist, elem);

               PHP_VAR_UNSERIALIZE_DESTROY(var_hash);
return;
                PRP_VAR_UNSERIALIZE_DESTROY(var_hash);
zend_throw_exception_ex(spl_ce_UnexpectedValueException, 0, "Error at offset trd of trd bytes", ((char*)p - buf), buf_len);
 zval *zindex, *value;
spl_dllist_object *intern;
spl_ptr_llist_element *element;
zend_long index;
                intern = Z_SPLDLLIST_P(getThis());
index = spl_offset_convert_to_long(zindex);
               if (index < 0 || index > intern->llist->count) {
   zend_throw_exception(spl_ce_OutOfRangeException, "Offset invalid or out of range", 0);
   return:
              Z_TMY_MORRE_P(value);
if (index == interm->llist->count) {
    /* If index is the last outry=! then we do a push because we're not inserting before any entry */
    spl_pr_llist_push(interm->llist, value);
} else {
                  /* Create the new element we want to insert */
spl_ptr_llist_element *elem = emalloc(sizeof(spl_ptr_llist_element));
                   /* Get the element we want to insert before */
element = spl_ptr_llist_offset(intern->llist, index, intern->flags & SPL_DLLIST_IT_LIFO);
                 ZVAL_COPY_VALUE (selem->data, value);
elem->rc = 1;
/* connect to the neighbours */
elem->next = element;
elem->prev = element->prev;
                /* connect the neighbours to this new element */
if (elem-prev -= NULL) {
  intern-llist-head - elem;
  } else
  element->prev->next - elem;
}
                 if (intern->llist->ctor) {
  intern->llist->ctor(elem);
            /* ((( iterator handler table */
static comat zend_object_iterator_funcs spl_dilist_it_funcs = (
spl_dilist_it_object,
spl_dilist_it_object,
spl_dilist_it_object,
spl_dilist_it_object,
spl_dilist_it_object,
spl_dilist_it_object,
spl_dilist_it_rowind,
NULL
1/* () // () // ()
               spl_dliist_it *iterator;
spl_dliist_object *dliist_object = Z_SPLDLLIST_P(object);
                zend_iterator_init((zend_object_iterator*)iterator);
```

```
1315: ZVAL_UNDEF(siterator->intern.value);
1316:
                                       SPL_LLIST_CHECK_ADDREF(iterator->traverse_pointer);
                                       return &iterator->intern.it;
135: INFO()
135: INFO()EXECUTED, MESTH AND_INFO()EX(arginfo_dilist_offsetSet, 0, 0, 2)
137: INFO(ANE,INFO(), index)
137: INFO(ANE,INFO())
130: INFO(ANE,INFO())
    1333:

1344 static comet zond_function_entry apl_funcs_pplboublyLinkedList[] = (
1355: BTLME (dplboublyLinkedList, pop. arginto_dllist_void, 
1355: BTLME (dplboublyLinkedList, pop. arginto_dllist_void, 
1356: BTLME (dplboublyLinkedList, anit, 
1356: BTLME (dplboublyLinkedList, unnitf, 
1359: BTLME (dplboublyLinkedList, top. 
1360: BTLME (dplboublyLinkedList, top. 
1360: BTLME (dplboublyLinkedList, bottom, 
1360: BTLME (dplboublyLinkedList, top. 
1361: BTLME (dplboublyLinkedList, bottom, 
1362: BTLME (dplboublyLinkedList, awtreasterSode, arginto_dllist_void, 
1361: BTLME (dplboublyLinkedList, awtreasterSode, arginto_dllist_void, 
1361: BTLME (dplboublyLinkedList, awtreasterSode, arginto_dllist_void, 
1361: BTLME (dplboublyLinkedList, delterstorSode, arginto_dllist_void, 
1361: Arginto_dllist_void.
                                                                                                                                                                                                                                                                                                                                                                                 (
ZEND_ACC_PUBLIC)
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ZEND_ACC_PUBLIC)
ZEND_ACC_PUBLIC)
Teratormode, ZEND_ACC_PUBLIC)
                                       /* ArrayAccess /
SPL_ME (SplhoublyLinkedList, offsetExist,
SPL_ME (SplhoublyLinkedList, offsetCet,
SPL_ME (SplhoublyLinkedList, offsetSet,
SPL_ME (SplhoublyLinkedList, offsetSet,
srginfc_dllist_offsetCet,
srginfc_dllist_offsetCet,
srginfc_dllist_offsetCet,
srginfc_dllist_offsetCet,
srginfc_dllist_offsetCet,
srginfc_dllist_offsetCet,
                                         SPL_ME(SplDoublyLinkedList, add,
                                                                                                                                                                                                                                                                           arginfo_dllist_offsetSet,
                                                                                                                                                                                                                                                                                                                                                                                                                                         ZEND ACC PUBLICA
                                       (
REGISTER_SPL_STD_CLASS_EX(SplDoublyLinkedList, spl_dllist_object_new, spl_funcs_SplDoublyLinkedList);
memcpy(&spl_handler_SplDoublyLinkedList, zend_get_std_object_handlers(), sizeof(zend_object_handlers));
                                       spl.handier_SpiDoublylinkedlist.offset = XOffsetOf(spl_dllist_object, std);
spl.handier_SpiDoublylinkedlist.close_obj = spl_dllist_object_close;
spl.handier_SpiDoublylinkedlist.close_obj = spl_dllist_object_close;
spl.handier_SpiDoublylinkedlist.oeut_closest_object_spl_dllist_object_spl_duble_spl_dllist_object_spl_dllist_object_spl_duble_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_object_spl_dllist_obj
                                       REGISTER_SPL_CLASS_COMST_LONG(SpiDoublyLinkedList, "TT_MODE_LIPO", SPL_DLLIST_IT_LIPO);
REGISTER_SPL_CLASS_COMST_LONG(SpiDoublyLinkedList, "TT_MODE_FIPO", 0);
REGISTER_SPL_CLASS_COMST_LONG SpiDoublyLinkedList, "TT_MODE_RED", SPL_DLLIST_IT_DELETE);
REGISTER_SPL_CLASS_COMST_LONG(SpiDoublyLinkedList, "TT_MODE_RED", 0);
                                       REGISTER_SPL_IMPLEMENTS(SplDoublyLinkedList, Iterator);
REGISTER_SPL_IMPLEMENTS(SplDoublyLinkedList, Countable);
REGISTER_SPL_IMPLEMENTS(SplDoublyLinkedList, ArrayAccess);
REGISTER_SPL_IMPLEMENTS(SplDoublyLinkedList, Serialisable);
                                       spl_ce_SplDoublyLinkedList->get_iterator = spl_dllist_get_iterator;
                                         REGISTER_SPL_SUB_CLASS_EX(SplQueue, SplDoublyLinkedList, spl_dllist_object_new, spl_funcs_SplQueue, REGISTER_SPL_SUB_CLASS_EX(SplStack, SplDoublyLinkedList, spl_dllist_object_new, NULL);
1422:
1424: * Local variables:
1425: * tab-width: 4
1426: * c-basic-offset: 4
1427: * End:
1428: * vime00: fdm-marker
1429: * vim: noet sw-4 ts-
1430: */
```

```
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| Authors: Marcus Boarger chelly@php.net*
```

```
| Copyright (c) 1997-2018 The PHP Group
              /* SIdS */
            :
| $include "php_spl.h"
| $include "spl_functions.h"
| $include "spl_sengins.h"
| $include "spl_iterators.h"
| $include "spl_directory.h"
| $include "spl_exceptions.h"
       43:
44: #include "ext/standard/basic_functions.h"
45: #include "ext/standard/php_filestat.h"
              #define SPL_HAS_FLAG(flags, test_flag) ((flags & test_flag) ? 1 : 0)
       ov. (%): // declare the class handlers */
50: static read_object_handlers spl_filesystem_object_handlers;
51: /* incloses handler to validate object state when retrieving matcheds
53: static read_object_handlers spl_filesystem_object_chect_handlers;
53: static read_object_handlers spl_filesystem_object_chect_handlers;
54: /* declare the class server /
              static void spl_filesystem_file_free_line(spl_filesystem_object *intern) /* ({{ *
                if (intern->u.file.current_line) {
   efree(intern->u.file.current_line);
   intern->u.file.current_line = NULL;
                 ]
if (!Z_ISUNDEF(intern->u.file.current_zval)) {
    zval_ptr_dtor(&intern->u.file.current_zval);
    ZVAL_UNDEF(&intern->u.file.current_zval);
}
                 spl_filesystem_object *intern = spl_filesystem_from_obj(object);
                zend_objects_destroy_object(object);
                 switch(intern->type) {
case SPLFS_DIR:
   if (intern->u.dir.dirp) {
    php_stream_close(intern->u.
    intern->u.dir.dirp = NULL;
}
                break;
case SPL_FS_FILE:
if (intern->u.file.stream) {
                     */
if (!intern->u.file.stream->is_persistent) {
  php_stream_close(intern->u.file.stream);
} else {
    php_stream_pclose(intern->u.file.stream);
}
                zend_object_std_dtor(&intern->std);
                if (intern->_path) {
   efree(intern->_path);
)
spl_filesystem_file_free_line(intern);
break:
               static zend_object *spl_filesystem_object_new_ex(zend_class_entry *class_type
                intern = zend_object_alloc(sizeof(spl_filesystem_object), class_type);
/* intern>type = SPL_PS_NRO; done by set 0 */
intern>tyle_class = spl_cs_SplfileObject;
intern>into_class = spl_cs_SplfileObject;
                zend_object_std_init(sintern->std, class_type);
object_properties_init(sintern->std, class_type);
intern->std.handlers = &spl_filesystem_object_handlers;
```

```
if
stider HAVE_GLOB
if (interm-type -- SPL_FS_DIR) (
if (interm-type -- SPL_FS_DIR) (
if (interm_term_term_term, dir, dirp , interm_term_term_term, dir, dirp , interm_term_term_term_term_term_term_term, dir, dirp , 0, len);
setum php_glob_stream_pec_path(interm-term_term_term, dir, dirp , 0, len);
        static inline void spl_filesystem_object_qet_file_name(spl_filesystem_object *intern) /* ((( */
          char slash = SPL_HAS_FLAG(intern->flags, SPL_FILE_DIR_UNIXPATHS) ? '/' : DEFAULT_SLASH;
                 [
if (!intern->u.dir.dirp || !php_stream_readdir(intern->u.dir.dirp, sintern->u.dir.entry)) {
   intern->u.dir.entry.d_name(0) = '\0';
   return 0;
   alse {
    return 1;
}
233: Feture
234: |
235: |
236: /* || */
237:
238: #define IS_SLASH_AT(zs, pos) (IS_SLASH(zs[pos]))
239: 240: static inline int spl_filesystem_is_dot(const char * d_name) /* ([[ */ 241: [ returp forward: ] ] )
           return !strcmp(d_name, ".") || !strcmp(d_name, "..");
        /* ([[ spl_filesystem_dir_open */
/* open a directory resource */
static void spl_filesystem_dir_open(spl_filesystem_object* intern, char *path)
          int skip_dots = SPL_HAS_FLAG(intern->flags, SPL_FILE_DIR_SKIPDOTS);
          if (intern->_path_len > 1 s4 iS_SLASH_AT(path, intern->_path_len-1)) {
  intern->_path = estrndup(path, --intern->_path_len);
  } else {
  intern->_path = estrndup(path, intern->_path_len);
}
          intern->u.dir.index = 0;
         If DE (acception) || Intern-vois, dip == NULL) |
Intern-vois, entry, d.man() = "A";
If (DE (acception)) |
/* open failed word notice (turned to exception due to EU_TREON) */
zend_throw_exception_exip).co_DrespectedValueException, 0,
"Tailed to open directory "Vai"," path)
          do {
   spl_filesystem_dir_read(intern);
} while (skip_dots as spl_filesystem_is_dot(intern->u.dir.entry.d_name));
}
        static int spl_filesystem_file_open(spl_filesystem_object *intern, int use_include_path, int silent) /* ((( *...
          intern->type = SPL_FS_FILE;
          php_stat(intern-file_mass, intern-file_mass_ien, FS_1S_DIR, stmp);
if (L_TME(tmp) = 1S_TMEN |
if (L_TME(tmp) = 1S_TMEN |
intern-file_mass = NULL;
intern-file_mass = NULL;
intern-file_mass = NULL;
send_throw_axception_ex(spl_cs_logicException, 0, "Cannot use SplFileObject with directories");
return FALUME
         if (!intern-vfile_name_len || !intern-vu.file.stream) {
   if (!Ef@(exception)) {
      read_throw_exception_set(spl_ce_NuntimeException, 0, "Cannot open file '%s", intern-vfile_name_len ? intern-vfile_name : "");
   }
}
              intern->file_name = NULL; /* until here it is not a copy */
intern->u.file.open_mode = NULL;
return FAILURE;
          if (intern->file_name_len > 1 && IS_SLASH_AT(intern->file_name, intern->file_name_len-1)) {
  intern->file_name_len--;
          intern->orig_path = estrndup(intern->u.file.stream->orig_path, strlen(intern->u.file.stream->orig_path));
           intern->file_name = estrndup(intern->file_name, intern->file_name_len);
intern->u.file.open_mode = estrndup(intern->u.file.open_mode, intern->u.file.open_mode_len);
          /* avoid reference counting in debug mode, thus do it manually *
IVAL_BES(sintern-vu.file.resource, intern-vu.file.stream->res);
/*!!! TOOL: maybe hug?
L_SET_REFCCOUNT(intern-vu.file.resource, 1);
329: intern->u.file.es
330: intern->u.file.fu
331: 332: return SUCCESS;
333: | /* || | */
334:
          intern->u.file.func_qetCurr = zend_hash_str_find_ptr(&intern->std.ce->function_table, "qetcurrentline", sizeof("qetcurrentline") - 1);
344 14 '[1] spl_filesptem_object_closs '/
345 /* Stool sand.beject restrict (in stack)
337: Load the 'cther' object
338: Create a new empty object (See spl_filesptem_object_new
339: Open the directors (properties)
400: Close other members (properties)
        static zend_object *spl_filesystem_object_clone(zval *zobject)
          old_object = 2_OBJ_P(zobject);
source = spl_filesystem_from_obj(old_object);
new_object = spl_filesystem_object_new_ex(old_object-);
intern = spl_filesystem_from_obj(new_object);
          intern->flags = source->flags;
        do {
   spl_filesystem_dir_read(intern);
} while (akip_dots && apl_filesystem_is_dot(intern->u.dir.entry.d_name));
                    ntern->u.dir.index = index;
```

```
ext/spl/spl_directory.c
                                       zend_throw_error(NULL, "An object of class %s cannot be cloned", ZSTR_VAL(old_object->ce->name)); return new_object;
                        intern->file_class = source->file_class;
intern->info_class = source->info_class;
intern->oth = source->oth;
intern->oth_handler = source->oth_handler,
                     void spl_filesystem_info_set_filename(spl_filesystem_object *intern, char *path, size_t len, size_t use_copy) /* ([[
                         intern->file_name = use_copy ? estrndup(path, len) : path;
intern->file_name_len = len;
                         while (intern->file_name_len > 1 st IS_SLASH_AT(intern->file_name, intern->file_name_len-1)) {
  intern->file_name_lintern->file_name_len-1] = 0;
  intern->file_name_intern->file_name_len-1] = 0;
                  p1 = strrchr(intern->file_name, '/');
#if defined(PHP_WIN32)
p2 = strrchr(intern->file_name, '\\');
#else
                       {
    spl_filesystem_object *intern;
    zval argl;
    zend_error_handling error_handling;
  444:
435: if (!file_path || !file_path_len) {
436: #if defined(PMP_WIN32)
437: zend_throw_exception_ex(spl_ce_Run)
438: if (!file_path &! use_copy) {
439: efree(file_path);
440: }
                       zend_replace_error_handling(EH_THROW, spl_ce_RuntimeException, &error_handling);
                        ce = ce ? ce : source->info_class;
                         zend_update_class_constants(ce);
                         intern = spl_filesystem_from_obj(spl_filesystem_object_new_ex(ce));
ZVAL_OBJ(return_value, &intern->std);
                        if (ce=>constructor=>common.scope != spl_ce_SplFileInfo) {
    ZVAL_STRINGL(dargl, file_path, file_path_len);
    zed_call_method_with_laparms(return_value, ce, sce=>constructor, "_construct", NULL, sargl);
    zval_ptr_dows (sargl);
                         gval_pr_mus(sargif)
} else {
    spl_filesystem_info_set_filename(intern, file_path, file_path_len, use_copy);}
                       zend_restore_error_handling(serror_handling);
return intern;
} /* jj) */
    471: static spl_filesystem_object *spl_filesystem_object_create_type(int ht, spl_filesystem_object *source, int type, zend_class_entry *ce, zval *return ...
                        spl_filesystem_object *intern;
zend_bool use_include_path = 0;
zval arg1, arg2;
zend_error_handling error_handling;
                         zend_replace_error_handling(EH_THROW, spl_ce_RuntimeException, &error_handling);
                             Case Off_Case.

case off_Case.
                        switch (type) {
  case SPL_FS_INFO:
    ce = ce ? ce : source->info_class;
                                       if (UNEXPECTED(zend_update_class_constants(ce) != SUCCESS)) {
    break;
                                       intern = spl_filesystem_from_obj(spl_filesystem_object_new_ex(ce));
ZVAL_OBJ(return_value, sintern->std);
                                    Ind.com(return,value, interm-vete);

#pt_flispytem_object_get_flispase(source);

#f (ce-vecnstructor-vecnson.scope != spl_ce_ppfflisfafe) (
TVAL_FRING(trapt, source-vettle_name, source-vettle_name, lan);

red_call_setted_with_learner (return_value, os, ce-venstructor, "__constr

set__call_setted_with_learner (return_value, os, ce-venstructor, "__constr

set____interm-vite_name = estrong(source-vite_name, source-vite_name_len);

interm-vite_name_inter_source-vite_name_len;

interm-vite_name_inter_source-vite_name_len;

interm-vite_name_inter_source-vite_name_len;

interm-vite_name_inter_source-vite_name_len;

interm-vite_name_inter_source-vite_name_len;

interm-vite_name_inter_source-vite_name_len;

interm-vite_name_intername.pdb;

interm-vite_name.pdb;

interm-vite_name.
                                        ZVAL_OBJ(return_value, sintern->std);
                                       spl_filesystem_object_get_file_name(source);
                                     if (spl_filesystem_file_open(intern, use_include_path, 0) -- FAILURE) {
    rend_restore_error_handling(serror_handling);
    reval_prt_efor(return_value);
    rVAL_DULL(return_value);
    return NULL);
```

```
break;
case SPL_FS_DIR:
zend_restore_erro
zend_throw_except
return NULL;

}
zend_restore_error_handling(serror_handling);
return NULL;

return d_name[0] == '\0' || spl_filesystem_is_dot(d_name);
static HashTable *spl_filesystem_object_get_debug_info(zval *object, int *is_temp) /* (// *.
                   spl_filesystem_object *intern = %_SFLFILESYSTEM_F(object);
rval tmp;
RashTable *re;
rand_string *pastr;
char *pastr;
char *pastr_object;
char *pas
                    if (!intern->std.properties) {
   rebuild_object_properties(sintern->std);
                    if (intern-file_name) {
  postr = spl_sen_private_pron_name(spl_ce_SplFileInfo, "fileName", sizeof("fileName")-1);
  spl_filesystem_object_get_path(intern, spath_len);
                        | else (
| ZVAL_FALSE(stmp);
                             i
zend_symtable_update(rv, pnstr, stmp);
zend_string_release(pnstr);
dif
                        mddf
pnstr spl_gen_private_prop_name(spl_ce_hecuriveDirectoryTterator, "subPathName", sizeof("subPat)
if (intern-vu.dir.sub_path) (
ZVAL_STRENG(itep, intern-vu.dir.sub_path, intern-vu.dir.sub_path_len);
) alse (
ZVAL_DEFT_STRING(itep));
                             zend_symtable_update(rv, pnstr, stmp);
zend_string_release(pnstr);
               rand_string_release(puntl);
if (inter-vype = SELF_STID) {
   pmair = spl.pmn.prive.prep.mam(spl.ce.SplFlisObject, "openSode", sizeof("openSode")-1);
   pmair = spl.pmn.prive.prep.mam(spl.ce.SplFlisObject, "open.pode_len);
   rand_symtable_update(try pmair, stmp);
   rand_symtable_update(try pmair, stmp);
   rand_symtable_update(try pmair, stmp);
   rand_symtable_update(try pmair)= spl.pmn.str = spl.pmn.prive.grep.pmn.str = spl.pmn.str = sp
                   spl_filesystem_object *fsobj = spl_filesystem_from_obj(*object);
                 if (fsab)=>u.dir.dip == NULL is fsab)=>orig_path == NULL) (
zond_tunction "func;
zond_string "tup = zond_string_init("_bad_state_se", sizeof("_bad_state_se") - 1, 0);
func = zond_set_int_object_bandiers()->pget_sethod(object, tmp, NULL);
zond_string_valuelses(tmp);
return func;
                void spl_filesystem_object_construct(INTERNAL_FUNCTION_PARAMETERS, zend_long ctor_flags) /* (((
                   spl_filesystem_object *intern;
char *path;
int parsed;
size_t len;
zend_long flags;
zend_error_handling error_handling;
                   zend_replace_error_handling(EH_THROW, spl_ce_UnexpectedValueException, serror_har
                 If [PF_UBA_FLAD(rior_llapp, DI_CTOR_FLAD)] |
riap = SP_UTIED_NP_CA_FLAD(SP_UBA_FLAD), CORREST_AB_FILEINFO;
parsed = send_parse_parameters (EDO_UND_ARGS(), "sl2", spath, slee, stlapp);
slae {
    itsp = SP_UTIED_NP_CA_FRAD(SP_UBA_FILE_DI_CURBATA_AS_ELF;
    parsed = send_parse_parameters(EDO_UND_ARGS(), "sl2", spath, sleen);
}
                   if (SPL_HAS_FLAG(ctor_flags, SPL_FILE_DIR_SKIPDOTS)) {
  flags |= SPL_FILE_DIR_SKIPDOTS;
```

```
ext/spl/spl_directory.c
                                         spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                                              spl_filesystem_dir_read(intern);
                                     /* [[[ proto string DirectoryIterate
Return current dir entry */
SPL_METHOD(DirectoryIterator, key)
                                            spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                                            if (zend_parse_parameters_none() == FAILURE) (
79: "// // ports DirectorySterator DirectorySterator.corrent()
79: "/ ([[ ports DirectorySterator DirectorySterator.corrent()
79: SP_LETOR(DirectorySterator, current)
800: [ 1 [ tood_parse_parameters_pr-
800: seturo;
800: seturo;
800: seturo;
800: seturo;
800: seturo;
                                              .
ZVAL_OBJ(return_value, Z_OBJ_P(getThis()));
Z_ADDREF_P(return_value);
           810: Move to next entry */
811: SPL_METROD(DirectoryIterator, next)
812: 4
                                     spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
int skip_dots = SPL_HAS_FLAG(intern->flags, SPL_FILE_DIR_SKIPDOTS);
                                         if (zend_parse_parameters_none() == FAILURE) {
                                              do {
   spl_filesystem_dir_read(intern);
} while (akip_dots is spl_filesystem_is_dot(intern->u.dir.entry.d_name));
if (intern->file_name) {
                                                         efree(intern->file_name);
intern->file_name = NULL;
                                         {
    spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
zwal retval;
zend_long pos;
                                              if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", spos) == FAILURE) {
     ...
                                            if (intern-vu.dit.index > pos) {
    /* vs first revisiof */
    revisiof
                                              while (Intern-Ou.dir.index < pos) {
    int valid = 0
        int valid = 0

                                                       } zend_call_method_with_0_params(&EX(This), Z_OBJCE(EX(This)), &intern->u.dir.func_next, "next", NULL);
        William of the contains of the contains one on the set of the contains one of the contains one of the contains of
                                              spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(qetThis());
                                         if (zend_parse_parameters_none() == FAILURE) (
    return;
      | BBC | splfilesystem.bject 'intern = %_SPIFILESYST
| Splfilesystem.bject 'intern = %_SPIFILESYST
| BBC | size_path_leng
| size_path_leng
| size_path_leng
| size_path_leng
| size_path
                                            path = spl_filesystem_object_get_path(intern, spath_len);
RETURN_STRINGL(path, path_len);
                                            spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
size_t path_len;
                                            if (zend_parse_parameters_none() == FAILURE) (
    return;
                                              spl_filesystem_object_get_path(intern, &path_len);
                                              if (path_len && path_len < intern->file_name_len) {
   RETURN_STRINGL(intern->file_name + path_len + 1, intern->file_name_len - (path_len + 1));
                                              ) else {
   RETURN_STRINGL(intern->file_name, intern->file_name_len);
           914:
915: /* [[[ proto string DirectoryIterator::getFilename()
916: Return filename of current dir entry */
917: SPL_METHOD(DirectoryIterator, getFilename)
...
                                         spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                                         if (zend_parse_parameters_none() == FAILURE) {
   return;
                                         RETURN_STRING(intern->u.dir.entry.d_name);
        528;
239; /* (if proto string SpiFileInfo:;getExtension()
530; Neturns file actuasion component of path */
531; SPL_WERMOSPILINITO, getExtension)
532; (
531; Spl_filesystem_object *intern - % SPIFILESYSTBN_P (getThis());
534; Chast *frame = WOLT;
535; count data *p;
```

```
size_t idx;
zend_string *ret;
                                             --- pup_Dasename(fname, flem, NULL, D);

p = zend_memrchr(ZSTR_VAL(ret), '.', ZSTR_LEN(ret));

if (p) = ZSTR_VAL(ret);

send_string_release(ret);

zend_string_release(ret);

zend_string_release(ret);

zend_string_release(ret);

zend_string_release(ret);

zend_string_release(ret);
_string;
_string;

=i (* )))*/

969:
970: /* ([[ proto string Directory/terator::getExtension],
971: Returns the file extension component of path */
972: SET_METROCO[Directory/terator, getExtension)
974: sp.f.tissystem.cobject *intern = Z_SPLET**
976: size_tissy
977: zond_string *fname;
978: 979: if (zam**
                                                   {
    spl_filesystem_object *intern = Z_SPIFILESYSTEM_P(getThis());
    coest char *p;
    size_t idx;
    tend_string *fname;
}
                                           = php_basename(intern->u.dir.entry.d_name, strlen(intern->u.dir.en
p = send_namethr(ISTM_VAL(fname), '.', ISTM_LEN(fname));
if [9]:
id = p = ISTM_VAL(fname)
BETVAL_STRING(ISTM_VAL(fname) + idx + 1, ISTM_LEN(fname) - idx - 1);
send_nametring_release(fname);
locate(
locate(Internametring_release(fname));
bettown_nametring_release(fname);
bettown_nametring_release(fname);
                                                   fname = php_basename(intern->u.dir.entry.d_name, strlen(intern->u.dir.entry.d_name), NULL, 0);
                    997: /* [[[ proto string SplFileInfo::getBaser
998: Returns filename component of path */
999: SPL_METHOD(SplFileInfo, getBasename)
                                                   spl_filesystem_object *intern = Z_SPIFILESYSTEM_P(getThis());
char *fname, *suffix = 0;
size_t flon;
size_t slon = 0, path_len;
                                                   if (zend_parse_parameters(ZEND_NUM_ARGS(), "|s", ssuffix, sslen) == FAILURE) (
                                                   spl_filesystem_object_qet_path(intern, spath_len);
                                                   if (path_len s& path_len < intern->file_name_len) {
  fname = intern->file_name + path_len + 1;
  flen = intern->file_name_len - (path_len + 1);
) else {
            1018: |
1020: RETURN_STR(php_basename(fname, flam, suffix, slen));
1020: RETURN_STR(php_basename(fname, flam, suffix, slen));
1021: / | | | |
1022: / | | | | |
1022: SP_LETURN_STR(php_basename(string Ssuffix));
1023: Returns filename component of current dir entry '/
1024: SP_LETURN_STR(php_basename(string Ssuffix));
1025: SP_LETURN_STR(php_basename(string Ssuffix));
1025: SP_LETURN_STR(php_basename(string Ssuffix));
1026: SP_LETURN_STR(php_basename(string Ssuffix));
1026: SP_LETURN_STR(php_basename(string Ssuffix));
1027: char 'suffix = 0;
1028: SP_LETURN_STR(php_basename(string Ssuffix));
1028: SP_LETURN_STR(php_basename(string Ssuffix));
1029: char 'suffix = 0;
1020: slin_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_String_Stri
                                                 {
spl_filesystem_object *intern = %_SPIFILESYSTEM_P(getThis());
size_t slen = 0;
zend_string *fname;
                                                   if (zend_parse_parameters(ZEND_NUM_ARGS(), "|s", ssuffix, sslen) == FAILURE) {
   return;
                                                   fname = php_basename(intern->u.dir.entry.d_name, strlen(intern->u.dir.entry.d_name), suffix, slen);
                                                   RETVAL_STR(fname);
                                           '* {{{| proto string SplFileInfo::getPathnam
Return path and filename */
SPL_METHOD(SplFileInfo, getPathname)
                                                   {
spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
char *path;
size_t path_len;
                                                   if (zend_parse_parameters_none() == FAILURE) (
                                                 )
path = spl_filesystem_object_get_pathname(intern, spath_len);
if (path != NULL) (
RETURN_STRINGL(path, path_len);
) size (
RETURN_PALSE;
)
                1057: J alse (
1059: BTUTRE_FALSE;
1059: J TORRET |
1050: J TORRET |
1050:
                                                       spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                                                   if (zend_parse_parameters_none() == FAILURE) {
   return;
            spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(qetThis());
                                                   if (zend_parse_parameters_none() == FAILURE) {
   return;
                                                 if (SPL_FILE_DIR_CUBRENT(intern, SPL_FILE_DIR_CUBRENT_AL_PATROMSE)) (
spl_filesystem_object_spet_file_mass(intern);
spl_filesystem_object_mass_intern>file_mass_ian)
spl_filesystem_object_spet_file_mass(intern);
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                                                   {
   spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                  1112: if (zend_parse_parameters_none() == FAILURE) {
1113: return;
```

```
ext/spl/spl_directory.c
                       spl_filesystem_info_set_filename(intern, path, len, 1);
                    /* {{{ FileInfoFunction */ #define FileInfoFunction(func_name, func_num) \ ...
                       rond_replace_error_handling(ER_TBROW, spl_ce_RuntimeException, serror_handling);\
spl_filesystem_object_get_file_name_(intern); \
php_stat(intern->file_name, intern->file_name_len, func_num, return_value); \
rond_restor_error_handling(serror_handling); \
1159:

1160: /* [[[ proto int SplFileInfor:getPerms() 1161: Get file permissions */ 1162: FileInformation(setPerms, FS_PERMS) 1163: /* []]] */ 1164: 1165: Get file Indoe */ 1166: Get file Indoe */ 1167: FileInformation(setIndoe() 1167: FileInformation(setIndoe() 1167: FileInformation(setIndoe() 1167: FileInformation(setIndoe() 7 
 1174: / [[[ proto int SplfileInfo::getOwner[ 1176: Get file owner */ 1177: FileInfoFunction (getOwner, FS_OWNER) 1178: [* ]] */ 1179: [* ]
  1181: Get file group */
1182: FileInfoFunction (getGroup, FS_GROUP)
1183: /* /// */
1184:
1185: /* {{{ proto int SplFileInfo::ger2Tfm}
 1186: Get last access time of file */
1187: FileInfoFunction(getATime, FS_ATIME)
1188: /* ))) */
1201: Get file type */
1202: FileInfoFunction(getType, FS_TYPE)
 1203: /* )]) */
1204: 1204: /* ([[ prote bool SplFileInfo::isWritz
1205: Returns true if file can be writte
1207: FileInfoFunction(isWritable, FS_IS_W)
1208: /* ]]) */
1209:
  1224: / (() perco bool SpiFilalnfo::1801r()
1226: / *(() perco bool SpiFilalnfo::1801r()
1226: *Returne true if file is directory //
1277: Filalnformetios(1801r, FB_1S_01R)
1228: / ())) */
1229: (1230: // (() proto bool SpiFilalnfo::1silink())
1231: / *Returne true if file is symbolic link */
1232: / Filalnformetios(1811nk, FB_1E_11RK)
 1234: / // /
1235: * / ((( proto string SpiFileInfo::getLinkTarget ()
1236: Roturn the target of a symbolic link */
1237: SPL_METHOD (SpiFileInfo, getLinkTarget)
1238: (( 1239: spl_filesystem_object *intern = 2_SPiFiLeSYSTE
                       spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                      ssize_t ret;
char buff[MAXPATHLEN];
zend_error_handling error_handling;
                       if (zend_parse_parameters_none() == FAILURE) (
                       zend_replace_error_handling(EH_THROW, spl_ce_RuntimeException, serror_handling);
                  }
ret = php_sys_readlink(expanded_path, buff, MAXPATHLEN - 1);
} else {
ret = php_sys_readlink(intern->file_name, buff, MAXPATHLEN-1);
                    zend restore error handling(serror handling):
 1281: #1 HAVE_BEALPATH || defined(ETS)
1282: #4 [ Have_BEALPATH || defined(ETS)
1283: /* ([[ proto string SpiFileInfo::getRealPath()
1284: Return the resolved path */
1285: SPL_METHOD(SpiFileInfo, getRealPath)
1286: (
                      spl_filesystem_object *intern = Z_SPIFILESYSTEM_F(getThis());
char buff[MAXPATRLEN];
char ffliename;
zend_error_handling error_handling;
                       zend_replace_error_handling(EH_THROW, spl_ce_RuntimeException, serror_handling);
                       if (intern->type == SPL_FS_DIR ss !intern->file_name ss intern->u.dir.entry.d_name[0]) {
    spl_filesystem_object_get_file_name(intern);
                      if (intern->orig_path) {
  filename = intern->orig_path;
} else {
  filename = intern->file_name;
1308:
1309: if (filename & VCMD_REALPATH(filename, buff)) {
1310: #ifdef 275
1311: if (VCMD_ACCESS(buff, F_OK)) {
13112: RSYVAL_FALSE;
1313: ) else
```

```
1314: #endif
1315: RETVAL_STRING(buff);
1316: } else {
1317: RETVAL_FALSE;
  1319:
1320: zend_restore_error_handling(serror_handling);
1321: )
1322: /* )]) */
                       spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
  1335: /* [[[ proto void SplFileInfo::setFileClass([string class_name])
1336: Class to use in openFile() */
1337: SPL_METHOD(SplFileInfo, setFileClass)
                       zend_replace_error_handling(EH_THROW, spl_ce_UnexpectedValueException, serror_handling)
                       if (zend_parse_parameters(ZEND_NUM_ARGS(), "|C", sce) == SUCCESS) {
  intern->file_class = ce;
                         zend_restore_error_handling(serror_handling);
                    {
   spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
   zend_class_entry *ce = spl_ce_SplFileInfo;
   zend_error_handling error_handling;
                       zend_replace_error_handling(EH_THROW, spl_ce_UnexpectedValueException, serror_handling );
                       if (zend_parse_parameters(ZEND_NUM_ARGS(), "|C", sce) == SUCCESS) {
  intern->info_class = ce;
                    [
spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
zend_class_entry *ce = intern->info_class;
zend_error_handling error_handling;
                       zend_replace_error_handling(EH_THROW, spl_ce_UnexpectedValueException, serror_handling)
                         if (zend_parse_parameters(ZEND_NUM_ARGS(), "|C", &ce) -= SUCCESS) {
    spl_filesystem_object_create_type(ZEND_NUM_ARGS(), intern, SPL_FS_INFO, ce, return_value);
                    if (seed_parse_parameters(EDD_LDMC_MAGS(), "(C", see) == SDCCESS) (
sisc._path_ims)

sisc._path_ims)

sisc._path_ims;

sisc._path_ims;

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sisc._path_ims;

sisc._path_ims;

sisc._path_ims;

sisc._path_ims;

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spt._ims;

spt.
                     /* ((( proto void SplFileInfo::_bad_state_
SPL_METHOD(SplFileInfo, _bad_state_ex)
  1416: 1

117: zed_throw_axception_ex(spl_ce_LogicException_0,
1418: "The parent constructor was not called; the object is in an
1419: "Invalid state ");
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1421:
  1422; # [[ proc void FlissystemIterator:__construct(string path [, int flags])
1424; * Crosstrocts a new dir iferator from a path. */
1425; * STL_MENO(FlissystemIterator, _construct)
1426; [
1426; [
1427: spl_filssystem_object_construct(INTERNAL_FUNCTION_FARAM_FARSTHER, DIT_CTOR,
                         spl_filesystem_object_construct(INTERNAL_FUNCTION_PARAM_PASSTHRU, DIT_CTOR_FLAGS | SPL_FILE_DIR_SKIPDOTS);
  1430:
1431: /* [[[ proto void FilesystemIterator::rewind()
1432: Rewind dir back to the start */
1433: SPL_METHOD(FilesystemIterator, rewind)
                       .
spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
int skip_dots = SPL_BAS_FLAG(intern->flags, SPL_FILE_DIR_SKIPDOTS);
                       intern->u.dir.index = 0;
if (intern->u.dir.dirp) {
  php_stream_rewinddir(intern->u.dir.dirp);
                         do {
   spl_filesystem_dir_read(intern);
} while (skip_dots & spl_filesystem_is_dot(intern->u.dir.entry.d_name));
                    /* ([[ proto int FilesystemIterator::getFlags()
    Get handling flags */
SPL_METHOD(FilesystemIterator, getFlags)
                       spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(qetThis());
                       if (zend_parse_parameters_none() == FAILURE) {
                       RETURN_LONG(intern->flags & (SPL_FILE_DIR_KEY_MODE_MASK | SPL_FILE_DIR_CURRENT_MODE_MASK | SPL_FILE_DIR_OTHERS_MASK));
                    /* [[[ proto void FilesystemIterator::setFlags(long $flags) Set handling flags */
SPL_METHOD(FilesystemIterator, setFlags)
                       .
spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
zend_long flags;
                      if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", sflags) -- FAILURE) {
    return;
}
                          intern->flags &= '(SPL_FILE_DIR_KEY_MODE_MASK|SPL_FILE_DIR_CURRENT_MODE_MASK|SPL_FILE_DIR_OTHERS_MASK);
intern->flags |= ((SPL_FILE_DIR_KEY_MODE_MASK|SPL_FILE_DIR_CURRENT_MODE_MASK|SPL_FILE_DIR_OTHERS_MASK) & flags);
                         rend_bool allow_links = 0;
spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                         if (zend_parse_parameters(ZEND_NUM_ARGS(), "|b", sallow_links) == FAILURE) {
   return;
                       return)

[f (splfinsystem_is_invalid_or_dot(intern->u.dir.entry.d_name)) {

ENTUME_FRIES;

[splfinsystem_object_pet_file_name(intern);

[splfinsystem_object_pet_file_name(intern);

[f (isliot_links is i (intern->tings is SPLFILE_DIR_POLLOW_SVM_INKS)) {

[spl_intern->tine_name, intern->tine_name_len, FS_IS_LINE, return_value);

[st (rend.intern->tine_name, intern->tine_name_len, FS_IS_LINE, return_value);

[strume_FRIES;
                               php_stat(intern->file_name, intern->file_name_len, FS_IS_DIR, return_value);
```

```
ext/spl/spl_directory.c
                           rval zpath, rflags;
spl_filesystem_Object 'intern = 2_SPIFILESYSTEM_P(getThis());
spl_filesystem_Object 'subdir;
spl_filesystem_Object 'subdir;
spl_filesystem_Object 'subdir;
spl_file_Dir_UNIXFATES) ? '/' : DEFAULT_SLASH;
                           if (zend_parse_parameters_none() == FAILURE) (
    return;
                             spl_filesystem_object_get_file_name(intern);
                           TVAL_LONG(sflagg, intern->flagg);
ZVAL_STRING(sepath, intern->flagg);
ZVAL_STRING(sepath, intern->flagg);
zVAL_STRING(sepath);
zVAL_DTL,door(sepath);
zVAL_DTL,door(sepath);
zVAL_DTL,door(sepath);
                           subdir = 2_SPLFILESYSTEM_P(return_value);
if (subdir) {
   if (intern->u.dir.sub path ## intern->u.dir.sub path ## interna-
                                 if (subdit) {
    if (intern-)o.dir.sub_path is intern->o.dir.sub_path(0);
    if (intern-)o.dir.sub_path is intern->o.dir.sub_path(0);
    subdit->o.dir.sub_path, len = sprint([subdit->o.dir.sub_path, 0, "%shots", intern->o.dir.sub_path, slash, intern->o.dir.entry.d_name);
    subdit->o.dir.sub_path( = strien(intern->o.dir.entry.d_name);
    subdit->o.dir.sub_path( = strien(intern->o.dir
   1540: /* ([[ proto void RecursiveDirectoryIterator::getSubPath()
1542: Get sub path */
1543: SPL_METHOD(RecursiveDirectoryIterator, getSubPath)
                          (
spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(qetThis());
                           if (zend_parse_parameters_none() == FAILURE) (
    return;
                           if (intern->u.dir.sub_path) {
    RETURN_STRINGL(intern->u.dir.sub_path, intern->u.dir.sub_path_len);
   1558: /* [[[ proto void RecursiveDirectoryIterator::getSubPathname()
1560: Get sub path and file name */
1561: SPL_METHOD(RecursiveDirectoryIterator, getSubPathname)
                             spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
char slash = SPL_HAS_FLAG(intern->flags, SPL_FILE_DIR_UNIXPATHS) ? '/' : DEFAULT_SLASH;
                           if (zend_parse_parameters_none() -- FAILURE) (
 1579: "..."

1579: "(ii) proto int RecursiveDirectoryIterator::_construct(atring path [, int flags))

1579: "(iii) proto int RecursiveDirectoryIterator from a path. "/

1580: SPL_METHOD(RecursiveDirectoryIterator, __construct)
spl_filesystem_object_construct(INTERNAL_FUNCTION_PARAM_PASSTHRU, DIT_CTOR_FLAGS|DIT_CTOR_GLOB);
 1594: '* [[[ proto int GlobIterator::cont() 
1596: Return the number of directories and files found by globbing */ 
1597: SPL_METHOD(GlobIterator, count)
                          {
   spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                           if (zend_parse_parameters_none() == FAILURE) (
                          /* should not happen */
php_error_docref(NULL, E_ERROR, "GlobIterator lost glob state");
 | 1514:
| Static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1516: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1516: static void up_filesystem_dir_it_corrent_data(send_object_iterator 'iter); |
| 1518: static void 'up_filesystem_dir_it_corrent_data(send_object_iterator 'iter); |
| 1519: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1510: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1511: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1511: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1512: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1513: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1514: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1515: static void up_filesystem_dir_it_fore(send_object_iterator 'iter); |
| 1516: static void up_filesystem_dir_it_fore(send_object_iterator 'iterator 'i
                   "! Iterator handler rable "/
"! Iterator handler rable "/
"! treator handler rable "/
static comes teach_object_treator_funcs spl_filesystem_dir_it_funcs = {
    spl_filesystem_dir_it_rable_
    spl
                        /* {{{ spl_ce_dir_get_iterator */
zend_object_iterator *spl_filesystem_dir_get_iterator(zend_class_entry *ce, zval *object, int by_ref)
                           if (by_ref) (
rend_throw_swception(spl_ce_BuntimeException, "An iterator cannot be used with foreach by reference", 0);
return NULL;
                          dic.object = I.PRFILENSIBM_F(object);
iterator = spl_filesystem_object_to_iterator(dir.object);
PVML_ODFF(direntor-intern.diren.object);
iterator-intern.funcs = sspl_filesystem_dir_it_funcs;
/* -ocurrent must be infilialized rewind downorf set it and valid
- downorf cobock whether it's set //
iterator-vorrent = *object;
                        /* ([[ spl_filesystem_dir_it_dtor */
static void spl_filesystem_dir_it_dtor(zend_object_iterator *iter)
                             spl_filesystem_iterator *iterator = (spl_filesystem_iterator *)iter;
                          if (!Z_ISUNDEF(iterator->intern.data)) {
   zual *object = &iterator->intern.data;
   zval_ptr_dtor(object);
                                )

'Otherwise we were called from the owning object free storage handler as

'it sers iterator-intern_data to IS_UNDEF.

'We don't even need to destroy iterator-current as we didn't add a

reference to it in move_forward or get_iterator +/
                           return object->u.dir.entry.d_name[0] != '\0' ? SUCCESS : FAILURE;
   1682: /* ([[ spl_filesystem_dir_it_current_data */
1683: static zval *spl_filesystem_dir_it_current_data(zend_object_iterator *iter)
```

```
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     spl_filesystem_object *object = spl_filesystem_iterator_to_object((spl_filesystem_iterator *)iter);
                       ZVAL_LONG(key, object->u.dir.index);
      1704:
1705: object->u.dir.index++;
1706: spl_filesystem_dir_read(object);
1707: if (object->file_name) {
1708: efree(object->file_name);
1709: object->file_name = NULL;
        1714: /* [[[ spl_filesystem_dir_it_rewind */
1715: tattic void spl_filesystem_dir_it_rewind(zend_object_iterator *iter)
                        spl_filesystem_object *object = spl_filesystem_iterator_to_object((spl_filesystem_iterator *)iter);
                       object->u.dir.index = 0;
if (object->u.dir.dirp) {
   php_stream_rewinddir(object->u.dir.dirp);
                        }
spl_filesystem_dir_read(object);
       172s: static void spl_filesystem_tree_it_dtor */
1728: static void spl_filesystem_tree_it_dtor(zend_object_iterator *iter)
1777; / 1778; static void sp...
1778; static void sp...
1778; static void sp...
1779; static void sp..
                         spl_filesystem_iterator *iterator = (spl_filesystem_iterator *)iter
      1744 /* ([] sp_flissystem_tree_it_corrent_data */
1745 static voi *sp_flissystem_tree_it_corrent_data(send_ub)ect_iterator *iter)
1747: sp_flissystem_iterator *riterator *(sp_flissystem_iterator *)iter)
1749: sp_flissystem_iterator *(sp_flissystem_iterator to_ub)ect (iter
1749: sp_flissystem_object *cbject *sp_flissystem_iterator_to_ub)ect(iter
1749: sp_flissystem_object *cbject *sp_flissystem_iterator_to_ub)ect(iter
                       spl_filesystem_iterator *iterator = (spl_filesystem_iterator *)iter;
spl_filesystem_object *object = spl_filesystem_iterator_to_object(iterator);
                       if (SPL_FIR_DIR_CURENT(object, SPL_FIRE_DIR_CURRENT_AS_RATHNAME)) {
   if (Z_ISWNDFf(terator->current) {
        spl_file_system_object_get_file_name(object)}
        TVAL_STRINGL(siterator->current, object->file_name, object->file_name_len);
}
                       | return siterator->current;
| alse if (SPL_PITE_DIR_COMMENT(object, SPL_PITE_DIR_COMMENT_AG_FILEINFO)) (
| if (LIGUMENT_EAG_FITE_DIR_COMMENT_AG_FITEINFO)) (
| spl_fiterytem_object_ment_fite_name(object);
| spl_fiterytem_object_ment_cype(), object, SPL_FE_INFO, NULL, siterator->c
                       |
return siterator->current;
| else {
return siterator->intern.data;
       1768: /* {{{ | {{ | spl_filesystem_tree_it_current_key */ } }} } 
1769: static void spl_filesystem_tree_it_current_key (zend_object_iterator *iter, zval *key) 1770: {
                       (
   spl_filesystem_object *object = spl_filesystem_iterator_to_object((spl_filesystem_iterator *)iter);
                       if (SPL_FILE_DIR_KEY(object, SPL_FILE_DIR_KEY_AS_FILENAME)) {
    ZVAL_STRING(key, object->u.dir.entry.d_name);
                     /* ([[ spl_filesystem_tree_it_move_forward */
static void spl_filesystem_tree_it_move_forward(zend_object_iterator *iter)
                        spl_filesystem_iterator *iterator = (spl_filesystem_iterator *)iter;
spl_filesystem_object *object = spl_filesystem_iterator_to_object(iterator);
                        object->u.dir.index++;
do {
                      /* ((( spl_filesystem_tree_it_rewind */
static void spl_filesystem_tree_it_rewind(zend_object_iterator *iter)
                        spl_filesystem_iterator *iterator = (spl_filesystem_iterator *)iter;
spl_filesystem_object *object = spl_filesystem_iterator_to_object(iterator);
                       object->u.dir.index = 0;
if (object->u.dir.dirp) {
   php_stream_rewinddir(object->u.dir.dirp);
     1894: |
1895: /* ([| spl_cs_dir_get_iterator */
1836: rend_cbject_iterator *spl_filesystem_tree_get_iterator(send_class_entry *ce, zval *object, int by_ref)
                       if (by_ref) {
    zend_threw_exception(spl_ce_RuntimeException, "An iterator cannot be used with foreach by reference", 0);
    return NULL;
                       dir_object = 2_SPLFILESYSTEM_P(object);
iterator = spl_filesystem_object_to_iterator(dir_object);
                       ZVAL_COPY(siterator->intern.data, object);
iterator->intern.funcs = sspl_filesystem_tree_it_funcs;
                     /* [[[ spl_filesystem_object_cast */
static int spl_filesystem_object_cast(zval *readobj, zval *writeobj, int type)
                         spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(readobj);
                       if (type == IS_STRING) {
   if (Z_OBJCE_P(readobj)->_tostring) {
      return std_object_handlers.cast_object(readobj, writeobj, type);
}
```

```
ext/spl/spl_directory.c
  1898: ISBO_REGIN_AMG_INFO_EX(arginfo_optimalSuffix, 0, 0, 0)
1900: ISBO_BO_BO_AMG_INFO()
1901: ISBO_BO_AMG_INFO()
1902: ISBO_BO_AMG_INFO()
1903: ISBO_BOOL_AMG_INFO()
1903: ISBO_BOOL_AMG_INFO(arginfo_splfileinfo_void, 0)
1904: ISBO_BOOL_AMG_INFO()
                                         id(2TS)
getRealPath, arginfo_splfileinfo_void, ZEND_ACC_PUBLIC)
                                                                                                                                                                                                                        1943: IRD_MC_INTO(arginfo_dir_construct, 0)
1944: IRD_MC_INTO(arginfo_dir_construct, 0)
1945: IRD_MC_INTO(apath)
1947: IRD_MC_INTO(apath)
1947: IRD_MC_INTO(apath)
1949: IRD_MC_INTO(apath)
1959: IRD_MC_INTO(apath)
1959: IRD_MC_INTO(apath)
1949: IR
1931; "the method can have its own parameters and visibility "/
1934; static comet read_continue_metry epi_Directorytreator_functions[] = (
1934; static comet read_continue_metry epi_Directorytreator_functions[] = (
1934; static comet read_continue_metry epi_Directorytreator_metry epi_Direc
1844 : SPL_MEDisectory/terator, mest, amplified amplified 1865 : BFL_MEDisectory/terator, mest, amplified, amplified, 1865 : BFL_MEDISECTORY/terator, mest, amplified, amplified, 1870 : FREE_BERTLAND_CONTROL MEST, property of the construct, 0, 0, 1) 1870 : FREE_BERTLAND_LEWO(p. path) 1871 : ERRO_MEDITECTORY (p. path) 1872 : ERRO_MEDITECTORY (p. path) 1874 : ERRO_MEDITECTORY (p. 1100_11048) 1874 : ERRO_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_MEDITECTOR_M
1992:
1984: static comst rand_function_entry spl_Filosystemiterator_functions[] = {
1984: SPL_SE (Filosystemiterator, __construct, arginfor_rdir__construct, ZEND_ACC_PUBLIC)
1985: SPL_SE (Filosystemiterator, revind, 1986: SPL_SE (Filosystemiterator, key, 1997: SPL_SE (Filosystemiterator, key, 1998: SPL_SE (Filosystemiterator, key), 1988: SPL_SE (Filosystemiterator, getFlags, 1998: SPL_SE (Filosystemiterator, getFlags, arginfor_prilindro_void, ZEND_ACC_PUBLIC)
1990: SPL_SE (Filosystemiterator, setFlags, 1990: SPL_SE (Filosystemiterator, setFlags
  Z003: state comat zend_function_entry spl_GlobIterator_functions[] = {
2005: SPL_ME(GlobIterator, _construct, arginfo_r_dir__construct, ZEND_ACC_PUBLIC)
2006: SPL_ME(GlobIterator, count, arginfo_splfileinfo_void, ZEND_ACC_PUBLIC)
2007: PRP_FE_END
                                         static int spl_filesystem_file_read(spl_filesystem_object *intern, int silent) /* ((( */
                                                 Char "Muf; size_line 0; zand_long line_add - (intern->u.file.current_line || !%_ISUNDEF(intern->u.file.current_xval)) 7 1 : 0; zand_long line_add - (intern->u.file.current_line || !%_ISUNDEF(intern->u.file.current_xval)) 7 1 : 0;
                                                 spl_filesystem_file_free_line(intern);
                                              if (php_stream_oof(intern-vu.file.stream)) (
   if (!silont) {
        rend_threw_skception_ex(spl_ca_RuntimeException, 0, "Cannot read from file %s", intern->file_name);
    }
}
                                                            return FAILURE;
                                                 if (intern->u.file.max_line_len > 0) (
but = sate_smalloc(intern->u.file.max_line_len + 1), sizeof(char), 0);
if (php_trans_pt_line(intern->u.file.stream, buf, intern->u.file.max_line_len + 1, sline_len) == NULL)
but = NULL)
) slate
buf[line_len] = '\D';
                                                                 else {
buf = php_stream_get_line(intern->u.file.stream, NULL, 0, &line_len);
                                              if (Dut) {
  intern-vifile.current_line = estroup("");
  intern-vifile.current_line_len = 0;
} else {
  if (SE_LAM_FIAG(intern-vilags, SEL_FIIE_OBJECT_DROP_NEW_LINE)) {
    line_len = stropp/dof, "viv");
    buf[line_len] = "\0";
}
                                                                 intern->u.file.current_line = buf;
intern->u.file.current_line_len = line_len;
                                                    intern->u.file.current_line_num += line_add;
                                              {
    rend_fcall_info fci;
    rend_fcall_info_cache fcic;
    rend_fcall_info_cache fcic;
    reval *resource_ptr * sintern->u.file.resource, retval;
    int result;
    int num_args * pass_num_args * (arg2 ? 2 : 1);

                                                    zval *params = (zval*)safe_emalloc(num_args, sizeof(zval), 0);
```

```
params[0] = *zresource_ptr;
                                    fci.size = sizeof(fci);
fci.odject = NULL;
fci.ratval = szetval;
fci.param.count = num_args;
fci.param.e params;
fci.no_aperation = 1;
ZVAL_STR(sfci.function_name, func_ptr>cc
                                    result = zend_call_function(sfci, sfcic);
                                    if (result == FAILURE || 2_ISUNDEF(retval)) {
   RETVAL_FALSE;
} else {
   ZVAL_ZVAL(return_value, &retval, 0, 0);
vand_function 'func_gtr; \
func_gtr = (zind_function ')zend_hash_str_find_gtr(B5(function_table), #func_name, sizeof(#func_name) - 1); \
if (func_gtr = NULL) (\
if (sunc_gtr = NULL) (\
if (sunc
                                      . . spl_filesystem_file_call(intern, func_ptr, pass_num_args, return_value, arg2); \
(* 111 */
                                    ret = spl_filesystem_file_read(intern, 1);
} while (ret == SUCCESS &s !intern->u.file.current_line_len && SPL_BAS_FLAG(intern->flags, SPL_FILE_OBJECT_SKIP_EMPTY));
                                    if (ret == SUCCESS) {
    size_t buf_len = intern->u.file.current_line_len;
    char *buf = estrndup(intern->u.file.current_line, buf_len);
                                               ph_faptor(intern-o.file.stream, delimiter, enclosure, escape, buf_lem, buf, sintern-o.file.current_rval);
iral_ur_liner(current_ur_line);
value = sintern-o.file.current_rval);
value = sintern-o.file.current_rval;
value = sintern-o.file.current_rval;
value_value(value);
                                    return ret;
1181; '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || '/ || 
                                      zval retval;
                                    /* 1) use fgetow7 2) overloaded call the function, 3) do it directly */
if (SPL_MAS_TAG(intern-vlage, SPL_FIE_GABEC_FRAD_CSV) || intern-vs.file.func_getCurr->common.scope !-
if (SpL_stream_petCintern-vlate, SetExpl.stream);
if (islant) |
if (islant) |
implication_scoption_ex(spl_ca_BuntimeException, 0, "Cannot read from file %", intern-ville_name);
                                               ] TE (SP_UBA_FLAG(intern-vflags, SP_FILE_OBJECT_MEAD_CSV)) (
    return spl_filesystes_file_read_csv(intern, intern-vs.file.deliniter, intern-vs.file.enclosure, intern-vs.fil
                                                     }
if (!Z_ISUNDEF(retval)) (
if (intern-vu.file.current_line|| !Z_ISUNDEF(intern-vu.file.current_zval)) (
intern-vu.file.current_line_num+;
                                                       ]
Splingures_file_free_line(interm);
if the profits the profits of the profits of
                                                 ) else (
return FAILURE;
                                static int spl_filesystem_file_is_empty_line(spl_filesystem_object *intern) /* ([[ *
                                )
first = &Z_ARRVAL(intern->u.file.current_zval)->arData[idx].val;
return Z_TYPE_P(first) == IS_STRING && Z_STRLEN_P(first) == 0;
                                                       | return zend_habl_num_plements(I_AMSVAL(intern->u.file.current_zval)) -- 0;
case IB_NUL:
return 1;
default:
return 0;
2211; '/') '/
2218 [tatle in spl_filesystem_file_read_line_(val * this_ptr, spl_filesystem_object *intern, int silent) /* ((( * /
2220) [tatle in tet = spl_filesystem_file_read_line_ex(this_ptr, intern, silent);
2222; while (SPL_MAN_FIME(intern-vilage, SPL_FIME_ORNEC_STEP_BOPT) as ret -- SUCCESS as spl_filesystem_file_is_e.
                                    while (SPL_HAS_FLAG(intern->flags, SPL_FILE_OBJECT_SKIP_BMPTY) && ret -= SUCCESS && spl_filesystem_file_is
spl_filesystem_file_free_line(intern);
ret - spl_filesystem_file_read_line_ax(this_ptr, intern, silent);
                              static void spl_filesystem_file_rewind(zval * this_ptr, spl_filesystem_object *intern) /* ({{ */
```

```
ext/spl/spl_directory.c
           spl_filesystem_object *intern = 2_SPLFILESYSTEM_P(getThis())
zend_bool use_include_path = 0;
         if (rond_parse_parseters_throw(EEND_MUM_ARGS(), "pisht",
    sintern->file_name, sintern->file_name_len,
    sintern->file_open_node_sintern->sintle.open_node_len,
    suse_include_path, sintern->sintle.context) -- FAILURES()
    intern->dile_open_node = MULL;
    intern->tile_name = MULL;
    intern->tile_name = MULL;
          if (spl_filesystem_file_open(intern, use_include_path, 0) == SUCCESS) {
   tmp_path_len = strlen(intern->u.file.stream->orig_path);
            if (tmp_path_len > 1 && IS_SLASH_AT(intern->u.file.stream->orig_path, tmp_path_len-1)) {
   tmp_path_len-;
tmp_path = estrndup(intern->u.file.stream->orig_path, tmp_path_len);
           intern->_path = estrndup(intern->u.file.stream->orig_path, intern->_path_len);
}
          zend_restore_error_handling(&error_handling);
        /* [[[ proto void SplTempFileObject::__cons
Construct a new temp file object */
SPL_METHOD(SplTempFileObject, __construct)
          rend_long max_memory = PHP_STREAM_MAX_MEM;
char tmp_fname(48);
spl_filesystem_object tintern = Z_SPLFILESYSTEM_P(getThis());
zend_error_handling error_handling;
          if (zend_parse_parameters_throw(ZEND_NUM_ARGS(), "|1", &max_memory) == FAILURE) (
         intern->u.file.open_mode = "wb";
intern->u.file.open_mode_len = 1;
          rend_replace_error_handling(ER_THROW, spl_ce_RuntineException, serror_handling);
if (spl_filesystem_file_open(intern, 0, 0) == SUCCESS) {
   intern->_path_en = 0;
   intern->_path = estrndup("", 0);
}
         .
zend_restore_error_handling(serror_handling);
          spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
          if (zend_parse_parameters_none() -- FAILURE) (
    return;
  /dsi: |
2352: 2352: spl_filesystem_file_rewind(getThis(), intern);
2354: | /* | ) | * /
2355: * ([( proto void SplFileObject:seof()
 spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
          if (zend_parse_parameters_none() == FAILURE) (
          if(!intern->u.file.stream) {
    zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
    return;
         RETURN_BOOL(php_stream_eof(intern->u.file.stream));
        spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
          if (zend_parse_parameters_none() == FAILURE) (
    return;
          if (zend_parse_parameters_none() == FAILURE) (
          if(!intern->u.file.stream) {
  zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
          if (spl_filesystem_file_read(intern, 0) == FAILURE) {
   RETURN_FALSE;
        ,
RETURN_STRINGL(intern->u.file.current_line, intern->u.file.current_line_len);
} /* jjj */
          spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(qetThis());
          if (zend_parse_parameters_none() == FAILURE) (
          if(!intern->u.file.stream) (
zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
          if (!intern->u.file.current_line && Z_ISUNDEF(intern->u.file.current_zval)) {
    spl_filesystem_file_read_line(getThis(), intern, 1);
```

```
2444: // // // // // // // 2445: /* ([[ proto int SpiFileObject::key() 2446: Return line number */ 2447: SPI_METHOD (SpiFileObject, key) 2448: [ 2448: spl_filesystem_object *intern = Z_SI
                 spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                 if (zend_parse_parameters_none() == FAILURE) {
2459: RETURN_LONG(intern->u.file.current_line_num);
2460: } /* ]]] */
2461:
               /* [[[ proto void SplFileObject::n
Read next line */
SPL_METHOD(SplFileObject, next)
                 {
   spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
               if (zend_parse_parameters_none() == FAILURE) {
                spl_filesystem_file_free_line(intern);
if (SPL_HAS_FLAG(intern->flags, SPL_FILE_OBJECT_READ_AHEAD)) {
    spl_filesystem_file_read_line(getThis(), intern, 1);
                   )
intern->u.file.current_line_num++;
 24/8:
2479: /* [[[ proto void SplFileObject::set
2480: Set file handling flags */
2481: SPL_METHOD (SplFileObject, setFlags)
2482: [
                 if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", sintern->flags) == FAILURE) {
    return;
2400: ) / .... .
2489: 2490: /* ([[ proto int SplFileObject::getFlags()
2491: Get file handling flags */
2492: SPL_METHOD(SplFileObject, getFlags)
                 spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                if (zend_parse_parameters_none() == FAILURE) {
   return;
2302: 
2503: /* ([[ proto void SplFlieObject::setMaxLineLen(int max_len)  
2504: Set maximum line length */  
2505: SPL_METHOO(SplFlieObject, setMaxLineLen)  
2506: [
                  zend_long max_len;
                 spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                 if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", smax_len) == FAILURE) {
 2522: 2523: /* [[[ proto int SpiFileObject::getMaxLim
2524: Get maximum line longth */
2525: SPL_METHOO (SpiFileObject, getMaxLineLen)
2526: [
2527: spl_filesystem_object *intern = 2_SPiFil
                  spl filesystem object *intern = Z SPLFILESYSTEM P(getThis()):
                 if (zend_parse_parameters_none() == FAILURE) {
   return;
if (zend_parse_parameters_none() == FAILURE) {
 ...dnd_parse_par
-..ac: return;
2553: }
2554: /* return NULL */
2555: } /* ]]] */
2556: 2557
                 { \
    spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis()); \
    FileFunctionCall(func_name, ZEND_NUM_ARGS(), NULL); \
              /* [[[ proto array SplFileObject::f
Return current line as csv */
SPL_METHOD(SplFileObject, fqetcsv)
                  spl_filespites_abject 'intern - f_SUFILESTERL'(qeThid1);
char deliniter intern-voilie deliniter, enclosure intern-voi,file.enclosure, escape = intern-voi,file.escape,
char 'delin = NULL, 'enclo = NULL, 'esc = NULL)
sloc_t_i_n = 0, _eln = 0, _eln = 0;
                 if (zend_parse_parameters(ZEND_NUM_ARGS(), "|sss", sdelim, sd_len, senclo, se_len, sesc, sesc_len) == SUCCESS) {
                            escape = esc[0];
/* no break */
                            ase 2:
if (e_len != 1) {
    php_error_docref(NULL, E_WARNING, "enclosure must be a character");
    RETURN_FALSE;
                                nclosure = enclo[0];
'* no break */
                            /* no break ',
sae 1:
if (d_len != 1) (
    php_error_docref(NULL, E_WARNING, "delimiter must be a character");
RETURN_FALSE;
                         spl_filesystem_file_read_csv(intern, delimiter, enclosure, escape, return_value);
                 [spl_filesystem_mbject *intern = Z_SPLFILENYETEM_P(getThis());

char delimiter = intern-vu.file.delimiter, enclosure = intern-vu.file.enclosure, escape = intern-vu.file.escape,
struct_disn = 0, sulen = 0, sule
                  if (zend_parse_parameters(ZEND_NUM_ARGS(), "a|sss", sfields, sdelim, sd_len, senclo, se_len, sesc, sesc_len) -- SUCCESS) {    switch(ZEND_NUM_ARGS())
```

```
ext/spl/spl_directory.c
                                         php_error_docref(NULL, E_WARNING, "escape must be a chara
RETURN_FALSE;
                                    |
enclosure = enclo[0];
/* no break */
                            /* DD UTCHE.
case 2;
if [__in |-1) [
    plp_wirer_docref(NULL, E_MARNING, "delimiter must be a character");
    RIUNG_FALS;
]
                                ret = php_fputcsv(intern->u.file.stream, fields, delimiter, enclosure, escape);
RETURN_LONG(ret);
                   /* {{| proto void SplFileObject::setCsvControl(|string delimiter [, string enclosure [, string escape ]]}} 
Set the delimiter, enclosure and escape character used in fgetcsv */ 
SPL_METROG(piPiLeObject, setCsvControl)
                       spl_filesystem_object *intern = 2_SPLFILESYSTEM_F(getThis());
char delimiter = ',', enclosure = '*', escape='\\';
char delimiter = ',', enclosure = '*', escape='\\';
char 'delim = NULL, *enclo = NULL;
sire_t d_len = 0, e_len = 0, esc_len = 0;
                            switch(EMUL,...)

(ass 3)

(ass 5)

(bs.2)

(cs.3)

(ps.2)

(p
                             se 1:
if (d_len != 1) {
    php_error_docref(NULL, E_MARNING, "delimiter must be a character");
    RETURN_FALSE;
                                       delimiter = delim[0];
/* no break */
Aruo:
2701: /* ((( proto array SpiFileOpject::getCavControl()
2702: Cet the delimiter, enclosure and accepe character used in fgetcsv */
2703: SPL_METMOC(SpiFileObject, getCavControl)
2704: (
2705: spl_fileoystem_Object intern = * ***
2706: char delimit****
                    dolimiter[0] = intern-vu.file.delimiter;
delimiter[1] = '\0';
enclosure[0] = intern-vu.file.enclosure;
enclosure[1] = '\0';
escape[0] = intern-vu.file.escape;
escape[1] = '\0';
   7727: ' ([[ proto bool SpiFileObject::fflush()
7728: ' [[[ proto bool SpiFileObject::fflush()
7730: SPL_METHOD(SpiFileObject, fflush)
2731: (
7732: spl_filesystem_object *intern = 2_SPiFil
7733:
                       spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
                       spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
zend_long ret;
                        if(!intern->u.file.stream) {
  zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
                       ret = php_stream_tell(intern->u.file.stream);
   2765: Return current file position 2765: SPL_METHOD(SplFileObject, fseek)
                       spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
zend_long pos, whence = SEEK_SET;
                      if(!intern-vu.file.stream) (
   zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
   return;
                   /* ([[ proto int SplFileObject::fgetc()
    Get a character form the file */
SPL_METHOD(SplFileObject, fgetc)
                       spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
char buf[2];
int result;
                           if(!intern->u.file.stream) {
   zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
   vertice.
                        spl_filesystem_file_free_line(intern);
                        result = php_stream_getc(intern->u.file.stream);
                       if (result == EOF) {
   RETVAL_FALSE;
) else {
   if (result == '\n') {
     intern->u.file.current_line_num++;
}
                            buf[0] = result;
buf[1] = '\0';
  2812:
2813: /* ([[ proto string SplFlieCbject::fgetss[[string allowable_tags]]
2814: Get a line from file pointer and strip HTML tags */
2815: gst_MSTHOO(SplFlieCbject, fgetss)
2816: [
```

```
spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
zwal arq2;
                                            spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
         2444; 1f(intern-viris.stream) (
2446; 2446, 1/200, 1/200, 2446; 2446; 2446; 2446; 2446; 2446; 2446; 2446; 2446; 2446; 2446; 2447; 2446; 2447; 2446; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 2447; 24
         spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
...scanf, EBD_NMM_ARGS(), NULL);

2055; /* ([[ prot mixed SplfileObject:fwrite(string str [, int length])
2057; /* ([[ prot mixed SplfileObject:fwrite(string str [, int length])
2070; Blancy-acte file write //
2071; BSL_WENDO(SplfileObject, fwrite)
2071; apl_filesystem_object *intern = lEPLFFF**
2071; apl_filesystem_object *intern = lEPLFFF**
2071; acc_dlon* // 2071; acc_
                                                          (!intern->u.file.stream) {
zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
                                          if (ZEND_NUM_ARGS() > 1) {
   if (length >= 0) {
    str_len = MIN((size_t)length, str_len);
   } else {
     /* Negative length given, nothing to wri
                                                    , wise {
    /* Negative length given, nothing to write *,
    str_len = 0;
}
                                            if (!str_len) {
    RETURN_LONG(0);
           2901:
2902: SPL_METHOD(SplFileObject, fread)
                                          spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
zend_long length = 0;
                                          if (length <= 0) {
   php_error_docref(NULL, E_MARNING, "Length parameter must be greater than 0");
   RETURN_PALES;</pre>
                                              ZVAL_NEW_STR(return_value, zend_string_alloc(length, 0));
2_STRLEW_P(return_value) = php_stream_read(intern->u.file.stream, Z_STRVAL_P(return_value), length);
                                          if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", ssize) == FAILURE) {
    return;
                                          if(!intern->u.file.stream) {
  zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
  return; ]
                                          if (!php_stream_truncate_supported(intern->u.file.stream)) {
    zend_throw_exception_ex(spl_ce_LogicException, 0, "Can't truncate file %s", intern->file_
    RETURN_FALSE;
         2958: Seek to specified line */
2959: SPL_METHOD (SplFileObject, seek)
2960: (
                                          .
spl_filesystem_object *intern = Z_SPLFILESYSTEM_P(getThis());
zend_long line_pos;
                                          if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", sline_pos) == FAILURE) {
    return;
                                            ]
if(intern->u.file.stream) (
   zend_throw_exception_ex(spl_ce_RuntimeException, 0, "Object not initialized");
   return;
                                            spl_filesystem_file_rewind(qetThis(), intern);
                                                2994: ZEND_BEGIN_ARG_INFO(arginfo_file_object_setFlags, 0)
2995: ZEND_ARG_INFO(0, flags)
2996: ZEND_END_ARG_INFO()
         3000: IND_NO_NO_NOTING_
3001: 3002: IND_NOTIN_NO_INTO_EX(arginfo_file_object_fgetosv, 0, 0, 0)
3002: IND_NOT_NOTING_OLITIC
3004: IND_NOTING_OLITICO_EX
3005: IND_NOTING_OLITICO_EX
3005: IND_NOTING_OLITICO_EX
3005: IND_NOTING_OLITICO_EX
3005: IND_NOTING_OLITICO_EX
3005: IND_NOTING_OLITICO_EX
3005: IND_NOTING_OLITICO_EX
3006: IND_NOTING_OLITICO
EX
3006: IND_NOTI
```

```
3014:
3015: ZEND_BEGIN_ARG_INFO_EX(arginfo_file_object_flock, 0, 0, 1)
#### 1800_RED_ABO_INFO .

1000: IRRO_RED_ABO_INFO .

1000: IRRO_RED_ABO_INF
   | SERVICE | SERV
      3088: ZEND_BEGIN_ARG_INFO_EX(arginfo_temp_file_object__construct, 0, 0, 0) 3090: ZEND_ARG_INFO(0, max_memory) 3091: ZEND_ARG_INFO(0, max_memory)
         | 1991: Imm_mon_os_levol)
| 1991: Imm_mon_os_levol, | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 1991: | 
         3098:
3099: /* ((( PHP_MINIT_FUNCTION(spl_di
                                                      PHP_MINIT_FUNCTION(spl_directory)
                                                         MRGITELT/Oktion(sp_mirectry)

MRGITELMS/TICKABLE(Spipilinisto, sp_filesystem_object_now, spl.SpiTisinisto_functions);

nemcyt (spl_filesystem_object_handlers, crod_opt_st_d_object_handlers); sizeef(som_object_handlers));

spl_filesystem_object_handlers.citem = NOTFisetOff(spl_filesystem_object_std));

spl_filesystem_object_handlers.citem.obj = spl_filesystem_object_toney;

spl_filesystem_object_handlers.citem_object_handlers.citem_object_std);

spl_filesystem_object_handlers.citem_object_handlers.citem_object_std);

spl_filesystem_object_handlers.citem_object_handlers.citem_object_filesystem_object_std;

spl_filesystem_object_handlers.citem_object_filesystem_object_filesystem_object_std;

spl_filesystem_object_handlers.citem_object_filesystem_object_filesystem_object_std;

spl_com_object_filesystem_object_std;

spl_com_object_handlers.citem_object_object_std;

spl_com_object_filesystem_object_std;

spl_com_object_filesystem_object_std;

spl_com_object_filesystem_object_std;

spl_com_object_filesystem_object_std;

spl_com_object_std;

spl_com_o
                                                            spl_ce_DirectoryIterator->get_iterator = spl_filesystem_dir_get_iterator;
                                                      REGISTER_SPL_SUB_CLASS_EX[RecursiveDirectoryIterator, FilesystemIterator, spl_filesystem_object_new, spl_RecursiveDirectoryIterator_functi
REGISTER_SPL_INGIEMENTS(RecursiveDirectoryIterator, RecursiveIterator);
                                                REGISTER_SPL_SUB_CLASS_EX(SplFileObject, SplFileInfo, spl_filesystem_object_new_check, spl_SplFileObject_functions);
REGISTER_SPL_IMPLEMENTS(SplFileObject, RecursiveIterator);
REGISTER_SPL_IMPLEMENTS(SplFileObject, SeakableIterator);
                                                         RECISTER_SPL_CLASS_CONST_LOWG (SplFileObject, "DROW_DEW_LINE", SPL_FILE_GRIECT_DROW_DEW_LINE);
REGISTER_SPL_CLASS_CONST_LOWG (SplFileObject, "READ_DREAD", SPL_FILE_GRIECT_READ_DREAD);
REGISTER_SPL_CLASS_CONST_LOWG (SplFileObject, "READ_CSV", SPL_FILE_GRIECT_READ_CSV);
REGISTER_SPL_CLASS_CONST_LOWG (SplFileObject, "READ_CSV", SPL_FILE_GRIECT_READ_CSV);
```

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ext/spl/spl_iterators.h
                                                                                                              | Copyright (c) 1997-2018 The PHP Group
                                 Art sedime SFL_TERATORS_H

28: Sinclude "Sph.Ph"

26: Sinclude "Sph.Ph"

26: Sinclude "Sph.Sph.Terators"

27: Sinclude "Sph.Sph.Terators"

28: Senif

28: 
                     36: White spl.c.juriliable rend_co_serialiable
37: White spl.c.juriliable rend_co_serialiable
37: White spl.c.juriliable rend_co_serialiable
37: AttemPEMPI lond_class_merry *spl.co_becuriveTeatorieratory
39: extem PEMPI lond_class_merry *spl.co_becuriveTeatorieratory
39: extem PEMPI lond_class_merry *spl.co_becuriveTeatorieratory
40: extem PEMPI lond_class_merry *spl.co_becuriveTeatorieratory
41: extem PEMPI lond_class_merry *spl.co_becuriveCathingTreatory
42: extem PEMPI lond_class_merry *spl.co_becuriveCathingTreatory
43: extem PEMPI lond_class_merry *spl.co_becuriveCathingTreatory
43: extem PEMPI lond_class_merry *spl.co_becuriveTeatory
45: extem PEMPI lond_class_merry *spl.co_becuriveTeatory
46: extem PEMPI lond_class_merry *spl.co_becuriveTeatory
47: extem PEMPI lond_class_merry *spl.co_becuriveTeatory
48: extem PEMPI lond_class_merry *spl.co_becuriveTeatory
48: extem PEMPI lond_class_merry *spl.co_becuriveTeatory
49: extemp PEMPI lond_class_merry *spl.co_becuriveTeatory
49:
| 011_Dixtoom -0
| 012_Dixtoom -0
| 013_Dixtoom -0
| 013_Dixtoom -0
| 014_Dixtoom -0
| 015_Dixtoom -0
| 016_Dixtoom -0
| 016_
                ... --www.node;
120: [120: [typedef struct_spl_chtilter_it_intern {
121: zend_ctall_info fci;
122: zend_ctall_info_cache fce;
123: zend_ctall_info_cache fce;
124: zend_cbject "object;
125: [_spl_cbfilter_it_intern;
126: [
    175:
176: typedef int (*spl_iterator_apply_func_t)(zend_object_iterator *iter, void *puser);
177:
                         177:
178: PBPAPI int spl_iterator_apply(zval *obj, spl_iterator_apply_func_t apply_func, void *puser);
179:
179:
180: #endif /* SPL_ITERATORS_N */
```

```
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                              | This source file is subject to version J.Ol of the PRF license, |
| That is bundled with this package in the file LICENSE, and is |
| available through the verif-velow-up at the following unit |
| RETEP!/vee.php.net/license/J.Ol.LET PRF license and are unable to |
| Action of the property of the verif-velow-up, please send are unable to |
| License@php.net as we can mail you a copy immediately.
                  /* SIdS */
      40: zend_object_handlers spl_handler_ArrayObject;
41: PHPAPI zend_class_entry *spl_ce_ArrayObject;
    42:
43: zend_object_handlers spl_handler_ArrayIterator
44: PHPAPI zend_class_entry *spl_ce_ArrayIterator
45: PHPAPI zend_class_entry *spl_ce_RecursiveArray
                dacine SE_DBBAY_DETRO_DBY_DBBAY

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                  static inline spl_array_object *spl_array_from_obj(zend_object *obj) /* ((( */ |
return (spl_array_object*) ((char*) (obj) - XtOffsetOf(spl_array_object, std));
                  #define Z_SPLARRAY_P(zv) spl_array_from_obj(Z_OBJ_P((zv)))
                  static inline HashTable **spl.array_ost_hash_table_ptr(spl.array_object* intern) ( /* ((( */
///?? T000: Delay duplication for arrays) only duplicate for write operations
if (intern-state_properties) (
   if (intern-state_properties) (
        rebuild_object_properties(intern-std);
}
                     resure interpretage continues and properties (incompany)

selection interpretage continues (incompany)

selection interpretage continues (incompany)

selection interpretage (
 static inline zend_bool spl_array_is_object(spl_array_object *intern) /* ((( */
                      while (intern->ar_flags & SPL_ARRAY_USE_OTHER) {
  intern = Z_SPLARRAY_P(&intern->array);
                      return (intern->ar_flags & SPL_ARRAY_IS_SELF) || Z_TYPE(intern->array) == IS_OBJECT;
132:

133: static int splarray_skip_protected(spl_array_object 'intern, BashTable 'sht);

134:

135: static rond_never_inline void splarray_create_bt_iter(HashTable 'ht, spl_array

136: [
137: intern->ht_iter = zend_hash_iterator_add(ht, ht->ninternalPointer);

138: zend_hash_internal_pointer_reast_ex(ht, &BG(ht_iterators)[intern->ht_iter].po

139: spl_array_skip_protected(intern, ht);

140: ]

140: // )] /**
                  static zend_never_inline void spl_array_create_ht_iter(HashTable *ht, spl_array_object* intern) /* {{{ */* }}
                      intern->ht_iter = zend_hash_iterator_add(ht, ht->nInternalPointer);
zend_hash_internal_pointer_reset_sx(ht, sSC(ht_iterators)[intern->ht_iter].pos);
spl_array_sx(hp_protected(intern, ht)
                  if (UNEXPECTED(intern->ht_iter == (uint32_t)-1)) {
   spl_array_create_ht_iter(ht, intern);
                   return sEG(ht_iterators)[intern->ht_iter].pos;
}
                   /* ([( spl_array_object_free_storage */
static void spl_array_object_free_storage(zend_object *object)
                      spl_array_object *intern = spl_array_from_obj(object);
                      zend object and dror(sintern-sand):
                  /* {{| spl_array_object_new_ex */
static zend_object *spl_array_object_new_ex(zend_class_entry *class_type, zval *orig, int clone_orig)
                      spl_array_object *intern;
zend_class_entry *parent = class_type;
int inherited = 0;
                      intern = zend_object_alloc(sizeof(spl_array_object), parent);
                      zend_object_std_init(&intern->std, class_type);
object_properties_init(&intern->std, class_type);
                        intern->ar_flags = 0;
intern->ce_get_iterator = spl_ce_ArrayIterator;
if (orig) (
spl_array_object *other = Z_SPLARRAY_P(orig);
                              intern->ar_flags &= ' SPL_ARRAY_CLONE_MASK;
intern->ar_flags |= (other->ar_flags & SPL_ARRAY_CLONE_MASK);
intern->ce_get_iterator = other->ce_get_iterator;
```

```
OPY(sintern->array, orig);
-->ar_flags |= SPL_ARRAY_USE_OTHER
        |
| else (
| array_init(sintern->array);
        while (parent) |
if (parent = spl_cs_Array)Terestor || parent = spl_cs,
intern-self.mandlers = tspl_handler_Array)Terator;
class_type-spc_tterator = spl_array_ope_tterator;
labs if (parent = spl_cs_Array)Desct |
intern-self.handlers = tspl_handler_ArrayDeject;
break;
           if (!parent) { /* this must never happen */
php_error_docref(NULL, E_COMPILE_ERROR, "Internal compiler error, Class is not child of ArrayObject or ArrayI
        ]

if (inherited) (
    intern-typt_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget", sizeof("offsetget") - 1);
    if (intern-typt_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget", sizeof("offsetget") - 1);
    if (intern-typt_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget", sizeof("offsetget") - 1);
    if (inherited) (
        intern-typt_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget", sizeof("offsetget") - 1);
    if (inherited) (
        intern-typt_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget", sizeof("offsetget") - 1);
    if (inherited) (
        intern-typt_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget", sizeof("offsetget") - 1);
    if (inherited) (
        intern-typt_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget") - 1);
    if (inherited) (
        intern-typt_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget") - 1);
    if (inherited) (
        inherited) (

                 interm->fptr_offset_set = zend_hash_str_find_ptr(sclass_type->function_table, "offsetset", sizeof("offsetset") - 1);
if (interm->fptr_offset_set = common.scope == parent) {
    interm->fptr_offset_set = NULL;
}
                    interm->fptr_offset_del = zend_hash_str_find_ptr(sclass_type->function_table, "offsetunset", sixeof("offsetunset") - 1);
if (interm->fptr_offset_del = zend_del = zend = zend ) {
    interm->fptr_offset_del = NULL;
    interm->fptr_offset_del = NULL;
}
                    )

'Cache iterator functions if Arraylierator or derived, Check current's '/

'Cache since only current is always required '/

if (intern-radia, handlers = sepl.) handler, Arraylierator) {

if (intern-radia, handlers = sepl.) handler, Arraylierator) {

if (intern-radia, handlers = sepl.) handler, Arraylierator) {

if (intern-radia, handlers, ha
     /* {{{ spl_array_object_new */
static zend_object *spl_array_object_new{zend_class_entry *class_type}}.
    /* [[[ spl_array_object_clone */
static zend_object *spl_array_object_clone(zval *zobject)
       zend_object *old_object;
zend_object *new_object;
       old_object = 2_OBJ_P(zobject);
new_object = spl_array_object_new_ex(old_object->ce, zobject, 1);
    static zval *spl_array_get_dimension_ptr(int check_inherited, spl_array_object *intern, zval *offset, int type) /* {{{{*}}}
        retval;
zend_long index;
zend_string *offset_key;
HashTable *ht = spi_array_get_hash_table(intern);
       if (!offset || Z_ISUNDEF_P(offset) || !ht) {
   return sEG(uninitialized_zval);
       If ((type == BP_VAR_W)| () type == BP_VAR_W) is interm->alapsycount > 0) (
zeed_seror(E_MARNING, 'Medification of ArmyCbject during sorting is prohibited');
zeturn 4DC(seror_vval);
)
try_again:
    switch (Z_TYPE_P(offset)) {
        case 18_NULL:
        offset_key = 2STR_EMSTY_ALLOC();
        goto fatch_dim_string;
        case 18_STRING:
        offset_key = 2_STR_P(offset);
        fetch_dim_string;
        fetch_dim_string;
               ALLACA (Type) {
    case EV_NAC,R1
    zend_error(E_NOTICE, "Ondefined index: %s", ZSTR_VAL(offset_key));
    zend_error(E_NOTICE, "Ondefined index: %s", ZSTR_VAL(offset_key));
    zend EV_NAC_E1
    zend EV_NAC_E1
    zerval = aSC(uninitialized_rval);

                                 retval = MEC(uninitialized_even;)
break; MaLEAN;
case EM_ANGEM;
case EM_ANGEM;
case EM_ANGEM;
case EM_ANGEM;
reval value;
reval value;
reval value;
reval value;
retval = zend_symtable_update(ht, offset_key, tvalue);
};
               ass IL_RESOURCE; "Besource ID#1d used as offset, casting to integer (td)", %_RES_P(offset)->handle, %_RES_P(offset)->handle);

pote num_index;

ass IL_POURLE;

index = (num_index;

ass IL_PLOE;

index = 0;

gote num_index;

ass IL_PLOE;

index = 0;

onto numindex;

ass IL_PLOE;

index = 0;

onto numindex;

ass IL_PLOE;

onto numindex;

ass IL_PLOE;
```

```
Case BP_VAR_RH:

rand_srror(E_NOTICE, "Undefined offset: "IERD_IONC_FMT, index);

rand_srror(E_NOTICE, "Undefined offset: "IERD_IONC_FMT, index);

rat value;

rat value;

rat value;

rat value;

rat val = rand_hasb_index_update(ht, index, svalue);

''
   179: case BY NULE:
170: case BY NULE:
180: val value;
181: val value;
181: val value;
181: value (recommended of the case of t
 /* When in a write context,

* ZE has to be fooled into thinking this is in a reference set

* by separating (if necessary) and returning as IS_REFERENCE (with refcount -- 1)

*/
                             static void spl_array_write_dimension_ex(int check_inherited, zval *object, zval *offset, zval *value) /* {{{ }} *
                               spl_array_object *intern = 2_SPLARRAY_P(object);
zend_long index;
HashTable *ht;
                               if (check_inherited && intern->fptr_offset_set) {
   zval tmp;
                                    if (!offset) {
    ZVAL_NULL(stmp);
    offset = stmp;
} else {
    SEPARATE_ARG_IF_REF(offset);
}
                                       ]
zend_call_method_with_Z_params(object, Z_OBNCE_P(object), &intern->fptr_offset_set, "offsetSet", NULL, offset, value);
zval_ptr_ofset(offset);
zeaters)
                                if (intern->nApplyCount > 0) (
  zend_error(E_WARNING, "Modification of ArrayObject during sorting is prohibited");
  return;
}
                         index = 0;
goto num_index;
case IS_TRUE:
index = 1;
goto num_index;
case IS_LONG:
index = 2_LVAL_P(offset);
    If (chack_inherited is intern-YGF_offset_del) (
SERRATI_NG_IF_EFF(offset_)
SERRATI_NG_IF_EFF(offset)
send_call_erfod_withl_params(object, Z_OBJCLP(object), &intern-Yfpt_offset_del, "offsetUnset", NULL, offset)
rval_prightr_offset);
return;
                                if (intern->nApplyCount > 0) {
  zend_error(E_MARNING, "Modification of ArrayObject during sorting is prohibited");
  return:
                         if (data) {
    f(LTTRE_P(data) == 18_NDIRECT) {
        data = 2_NDIRECT_P(data);
        real_error(E_NDIRECT_P(data));
        real_error(E_NDIRECT_P(data));
```

```
if (spl_array_is_object(intern)) {
   spl_array_skip_protected(intern, ht);
565:
566:
567:
568:
570:
571:
572:
573:
574:
575:
576:
577:
578:
579:
580:
581:
582:
583:
584:
                                                                          | | else if (zend_symtable_del(ht, Z_STR_P(offset)) == FAILURE) {
| zend error(E_NOTICE_"Undefined index: %s", Z_STRVAL_P(offset));
                                                              | else {
    zend_error(R_NOTICE, "Undefined index: %s", Z_STRVAL_P(offset));
                                          )

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La
                                               ht = spl_array_get_hash_table(intern);

if (zend_hash_index_del(ht, index) == FAILURE) {

zend_error(E_NOTICE, "Undefined offset: " ZEND_LONG_FMT, index);
                               break)
case 15_REFERENCE:
CASE 15_REFERENCE:
CVAL_DEREY (offset);
goto try_again;
default:
cod_srcr(E_MANNING, "lliegal offset type");
seturn)
    605:
606: static void spl_array_unset_dimension(zval *object, zval *offset) /* {{{ */
  static int spl_array_has_dimension_ex(int check_inherited, zval *object, zval *offset, int check_empty) /* ([[ */
                                   {
spl_array_object *intern = Z_SPLARRAY_P{object};
send_long index;
zval rv, *value = NULL, *tmp;
                                   if (check_inherited as intern-offtr_offset_has) {
    SERANT_MSC_IT_MST (offset);
    send_call_method_with_lparams(object, 1_0BUKE_F(object), sintern-offtr_offset_has, "offsetExists", srv, offset);
    vul_ptr_direct(offset);
                                            if (!Z_ISUNDEF(rv) ss zend_is_true(srv)) {
    zval_ptr_dtor(srv);
    if (check_empty != 1) {
                                                        return 1;
} else if (interm->fptr_offset_get) {
value = spl_array_read_dimension_ex(1, object, offset, BP_VAR_R, &rv);
                                      if (!value) (
   HashTable *ht = spl_array_get_hash_table(intern);
                                                        break;

case IS_DOBLE;
index = (zend_long) Z_DVALP(offset);
goto mm_index;
self_long = (zend_long) Z_DVALP(offset);
goto mm_index;
case IS_PALE;
index = 0;
goto mm_index;
case IS_PALE;
index = 0;
goto mm_index;
case IS_PALE;
index = 0;
joto mm_index;
case IS_PALE;
index = 0;
joto mm_index;
case IS_PALE;
index = 0;
joto mm_index;
case IS_PALE;
index = 0;
index =
                                                                            ix:
if ((tmp = zend_hash_index_find(ht, index)) != NULL) {
   if (check_empty == 2) {
      return 1;
}
                                                                     } else { return 0;
                                                            | break;

case IS_RETRENCE;

EVAL_DEREF(offset);

geto try_again;

default;

zend_error(E_WARNING, "Illegal offset type");

return 0;
                                               cand_bool result = check_empty ? zend_is_true(value) : Z_TYPE_P(value) != IS_NULL;
if (value == irv) {
    rval_ptr_dtor(irv);
}
  697: static int splarray_has_dimension(zval *object, zval *offset, int check_empty) /* {{{| "/ 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {| 698: {|
                             return spl_array_has_dimension_ex(1, object, offset, check_empty);
} /* | | | */
                               /* ([[ spl_array_object_verify_pos_ex */
static inline int spl_array_object_verify_pos_ex(spl_array_object *object, HashTable *ht, const char *msg_prefix)
  /* {{{ spl_array_object_verify_pos */
static inline int spl_array_object_verify_pos(spl_array_object *object, HashTable *ht)
                                 tval *index;
if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", &index) == FAILURE) {
   return;
                               139: | /* /// -/
130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: | 130: |
```

```
if (zend_parse_parameters(ZEND_NUM_ARGS(), "zz", &index, &value) == FAILURE) {
            ,
spl_array_write_dimension_ex(0, getThis(), index, value);
} /* jjj */
           void spl_array_iterator_append(zval *object, zval *append_value) /* ((( */
              spl_array_object *intern = Z_SPLARRAY_P(object);
HashTable *aht = spl_array_get_hash_table(intern);
              if (:aht) {
   php_error_docref(NULL, R_MOTICE, "Array was modified outside object and is no longer an array");
   return;
             spl_array_write_dimension(object, NULL, append_value);
] /* jjj */
           /* [[[ proto void ArrayObject::append(mixed Snewval proto void ArrayTerator::append(mixed Snewval Appends the value (cannot be called for objects)
SPL_METHOD(Array, append)
             if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", &value) == FAILURE) {
            spl_array_iterator_append(getThis(), value);
/* jjj */
           /* {{{ proto void ArrayCbject::offsetUnset(mixed Sinde proto void ArrayTterator::offsetUnset(mixed Sin Unsets the value at the specified Sindex. */

SPL_METHOD(Array, offsetUnset)
             {
    zval *index;

if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", &index) == FAILURE) {
    return;
 zval *object = getThis();
spl_array_object *intern = Z_SPLARRAY_P(object);
           RETURN_ARR(zend_array_dup(spl_array_get_hash_table(intern)));
           static HashTable *spl_array_get_properties(zval *object) /* ((( */
              spl_array_object *intern = Z_SPLARRAY_P(object);
             if (intern->ar_flags & SPL_ARRAY_STD_PROP_LIST) {
   if (!intern->std.properties) {
     rebuild_object_properties(sintern->std);
}
               return intern->std.properties;
           static HashTable* spl_array_get_debug_info(zval *obj, int *is_temp) /* ((( */
             zval *storage;
zend_string *zname;
zend_class_entry *base;
spl_array_object *intern = Z_SPLARRAY_P(obj);
             if (!intern->std.properties) {
   rebuild_object_properties(&intern->std);
             if (intern->ar_flags & SPL_ARRAY_IS_SELF) {
    *ia_temp = 0;
    return intern->std.properties;
} else {
    HashTable *debug_info;
    *ia_temp = 1;
                 debug_info = zend_new_array(zend_hash_num_elements(intern->std.properties) + 1);
zend_hash_copy(debug_info, intern->std.properties, (copy_ctor_func_t) zval_add_ref);
                 storage = &intern->array;
Z_TRY_ADDREF_P(storage);
                 base = Z_OBL_MT.P(ob)) == sspl_handier_Arrayiterator

? spl_cs_Arrayiterator : spl_cs_Arrayiterator

zname = spl_sep_rivida_ropo_name(base, "storage", sizeof("storage")-1);

zond_sym_able_update(debug_info, zname, storage);

zond_string_rolease(zname);
           static HashTable *spl_array_get_gc(zval *obj, zval **qc_data, int *qc_data_count) /* ((( */
             spl_array_object *intern = 2_SPLARRAY_P(obj);
    *gc_data = &intern->array;
    *gc_data_count = 1;
    return zend_std_get_properties(obj);
            static zval *spl_array_read_property(zval *object, zval *member, int type, void **cache_slot, zval *rv) /* (((
 static void spl_array_write_property(zval *object, zval *member, zval *value, void **cache_slot) /* ((( */
              spl_array_object *intern = Z_SPLARRAY_P(object);
             if ((intern-var_flags & SPL_ABRAY_ABRAY_AR_PROPS) != 0
st !std_object_handlers.has_property(object, member, 2, NULL)) (
spl_array_write_dimension(object, member, value);
return;
           std_object_handlers.write_property(object, member, value, cache_slot);
           static zval *spl_array_get_property_ptr_ptr(zval *object, zval *member, int type, void **cache_slot) /* {{{{}}} * {{{}}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {
                spl_array_object *intern = Z_SPLARRAY_P(object);
             if ((interm-bar_flags & SFL_ARBAY_ABBAY_AB_PROPS) !-
a ! int_object_handlers.hat_property(object, mesher, 2, NULl)) (
'FI doject hand offencied) (overtable, then failback to read_property,
if (interm-bfst_gffset_get))
'revuen NULL'
                } return spl_array_get_dimension_ptr(1, intern, member, type);
             return std_object_handlers.get_property_ptr_ptr(object, member, type, cache_slot);
           static int spl_array_has_property(zval *object, zval *member, int has_set_exists, void **cache_slot) /* {{{ "/ "}}
             spl_array_object *intern = Z_SPLARRAY_P(object);
             return std_object_handlers.has_property(object, member, has_set_exists, cache_slot);
            spl_array_object *intern = Z_SPLARRAY_P(object);
             if ((intern-var_flags & SPL_ARSAY_ARRAY_AS_PROPS) != 0
    st !std_object_handlers.has_property(object, member, 2, NULL)) {
    spl_array_unset_dimension(object, member);
    return;
```

```
intern1 = Z_SPLARRAY_P(o1);
intern2 = Z_SPLARRAY_P(o2);
ht1 = spl_array_get_hash_table(intern1);
ht2 = spl_array_get_hash_table(intern2);
                       static int spl_array_skip_protected(spl_array_object *intern, HashTable *aht) /* [[[ */
                          zend_string *string_key;
zend_ulong num_key;
zval *data;
                           if (spl_array_is_object(intern)) {
  uint32_t *pos_ptr = spl_array_get_pos_ptr(aht, intern);
                                    /* SKIP */
) else if (!ZSTR_LEN(string_key) || ZSTR_VAL(string_key)[0]) {
                                        ) else (
return SUCCESS;
                                        )
if (zend_hash_has_more_elements_ex(aht, pos_ptr) != SUCCESS) {
    return FAILURE;
  ...ie (1);
. }
982: return FAILURE;
983: } /* }}}
984:
                       static int spl_array_next_ex(spl_array_object *intern, HashTable *aht) /* ((( *
                          zend_hash_move_forward.ex(aht, pos_ptr);
if (spl_array_is_object(intern)) |
return spl_array_aktp_protected(intern, aht);
) else (
   return zend_hash_has_more_elements_ex(aht, pos_ptr);
                       static int spl_array_next(spl_array_object *intern) /* ((( */
                          {
   HashTable *aht = spl_array_get_hash_table(intern);
  1001: return spl_array_next_ex(intern, aht);
1002:
  1004:
1005: static void spl_array_it_dtor(zend_object_iterator *iter) /* {{{ "/
  1007: zend_user_it_invalidate_current(iter);
1008: zval_ptr_dtor(&iter->data);
1009: }
  1013: {
1014: spl_array_object *object = Z_SPLARRAY_P(siter->data);
1015: HashTable *aht = spl_array_get_hash_table(object);
  1016:

f (object->ar_fiags & SFL_ARRAY_OVERLOADED_VALID) {

return zond_user_it_valid(iter);

1018:

if (spl_array_object_werify_poa_ex(object, aht, "Array/Iterator::valid(): ") -- FAILURE) {

1010:

return FAILURE;

1010:
                                                                     nd_hash_has_more_elements_ex(aht, spl_array_get_pos_ptr(aht, object));
  1028: static zval *spl_array_it_get_current_data(zend_object_iterator *iter) /* {{{{}}} /{{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} */ {{}} 
    . spl_array_object *object = Z_SPLARRAY_P(siter->data);
1032: HashTable *aht = spl_array_get_hash_table(object);
                       if (object->ar_flags & SPL_ARRAY_OVERLOADED_CURRENT) {
   return zend_user_it_qet_current_data(iter);
                       retum zond_user_it_get_current_data(iter);
] else {
    zval *data = zend_hash_get_current_data_ex(aht, spl_array_get_pos_ptr(aht, object));
    if (2_TYPE_P(data) == IS_INDIRECT) {
        data = 2_INDIRECT_P(data);
    }
}
 static void spl_array_it_move_forward(zend_object_iterator *iter) /* ({{{ *}}}
                     .
spl_array_object *object = Z_SPLARRAY_P(&iter->data);
HashTable *aht = spl_array_get_hash_table(object);
                        if (object->ar_flags & SPL_ARRAY_OVERLOADED_NEXT) {
    zend_user_it_move_forward(iter);
} else {
    zend_user_it_invalidate_current(iter);
    if (laht) {
                                           php_error_docref(NULL, E_MOTICE, "ArrayIterator::current(): Array was modified outside object and is no longer an array");
                           spl_array_next_ex(object, aht);

                       static void spl_array_rewind(spl_array_object *intern) /* /// *
                              HashTable *aht = spl_array_get_hash_table(intern);
                          If (taht) {
    php.erer_doore(NNLL, R_NOTICE, "ArrayIterator::rewind(): Array was modified outside object and is no longer an array");
    return;
    return;
                          if (inter->M_List = cist32.5-1) {
    spl_array_pet_pos_gr(ahr, intern);
} size {
    spl_array_pet_pos_gr(ahr, intern);
} size {
    spl_array_pet_pos_gr(ahr, intern);
} slad_bab_internal_pointer_reset_pet(ahr, spl_array_pet_pos_gr(ahr, intern));
} spl_array_akip_protected(intern, ahr);
 1109:
1100: static void spl_array_it_rewind(zend_object_iterator *iter) /* {{{ */ } } } } 
1101: { { | 1102: spl_array_object *object = 7 SBI3BBAV DIVINITION TO THE SPLAND TO THE SPLAN
                           spl_array_object *object = Z_SPLARRAY_P(siter->data);
'((()p__array_set_array')

1f ((_)P_array_set_array(real 'object, spl_array_object 'intern, rval 'array, zend_long at_flags, imm just_array) (

1f ((_)TMP_(array)) != 1f_obmCf is 2_TTMP_(array) != 1f_obmAn) (

read_throw_secption(spl_ob__Trail/drayment/reach(ron, "Passed variable is not an array or object", 0);
                                         //??? TODO: try to avoid array duplication
2VAL_ARR(sintern->array, zend_array_dup(Z_ARR_P(array)));
```

```
ext/spl/spl_array.c
                         if (Z_OBJ_HT_P(array) -- tspl_handler_ArrayObject || Z_OBJ_HT_P(array) -- tspl_handler_ArrayIterator) {
    zval_ptr_dtor(sintern->array);
                            if (Z_OBJ_P(object) == Z_OBJ_P(array)) {
    ar_flags |= SPL_ARRAY_IS_SELF;
    ZVAL_UNDEF(sintern->array);
                         ZVAL_come...
) else {
    ar_flags |= SPL_ARRAY_USE_OTHER;
    ZVAL_COPY(sintern->array, array)
                           intern->ar_flags s= "SPL_ARRAY_IS_SELF s "SPL_ARRAY_USE_OTHER;
intern->ar_flags |= ar_flags;
intern->ht_iter = (wint32_t)-1;
...wf_DRE_OTHE

..._[]-1]

1160: // iterator handler table */
1160: static comet send_object_terator_funcs spi_erray_it_funcs = (
1160: spi_erray_it_value,
1160: spi_erray_it_spi_error_table,
1170: spi_error_table,
1170: spi_erro
     1171:
1172: zend_object_iterator *spl_array_get_iterator(zend_class_entry *ce, zval *object, int by_ref) /* ((( */
     1174: zend_user_iterator *iterator;
1175: spl_array_object *array_object = Z_SPLARRAY_P(object);
1176:
                   if (by_ref is (array_object->ar_flags & SPL_ARRAY_OVERLOADED_CURRENT)) (
zend_throw_exception(spl_ce_RuntimeException, "An iterator cannot be used with foreach by reference", 0);
return NULL.
                   iterator = emalloc(sizeof(zend_user_iterator));
                   zend_iterator_init(siterator->it);
                   ZVAL_COPY(siterator->it.data, object);
iterator->it.funcs = sspl_array_it_funcs;
iterator->ce = ce;
ZVAL_UNDEF(siterator->value);
                 /* [[[ proto void ArrayObject::_construct[[array]object ar - array[] [, int flags - 0 [, string iterator_class - *ArrayIterato Constructs a new array object from an array or object. */
                   rval *object = getThis();
spl_array_object *intern;
rval *array;
rval *array;
rend_long ar_flags = 0;
rend_class_entry *ce_get_iterator = spl_ce_Iterator;
                  if (ZEND_NUM_ARGS() == 0) (
return; /* nothing to do */
                   if (zend_parse_parameters_throw(ZEND_NUM_ARGS(), "z|lC", sarray, sar_flags, sce_get_iterator) == FAILURE) (
                    intern = Z_SPLARRAY_P(object);
                   if (ZEND_NUM_ARGS() > 2) (
  intern->ce_get_iterator = ce_get_iterator;
                   ar_flags &= "SPL_ARRAY_INT MASK:
                    spl_array_set_array(object, intern, array, ar_flags, ZEND_NUM_ARGS() == 1);
    zval *object = getThis();
spl_array_object *intern;
zval *array;
zend_long ar_flags = 0;
                  if (ZEND_NUM_ARGS() == 0) {
   return; /* nothing to do */
                   if (zend_parse_parameters_throw(2END_NUM_ARGS(), "z|1", &array, &ar_flags) -- FAILURE) (
                   intern = Z_SPLARRAY_P(object);
                  ar_flags &= "SPL_ARRAY_INT_MASK;
                  spl_array_set_array(object, intern, array, ar_flags, ZEND_NUM_ARGS() == 1);
    1249: 1250: /* [[[ proto void ArrayObject::setIter
1251: Set the class used in getIterator.
1252: SPL_METHOD(Array, setIteratorClass)
                 vval *object = getThis();
spl_array_object *intern = Z_SPLARRAY_P(object);
zend_class_entry * ce_get_iterator = spl_ce_Iterator;
                  ZEND_PARSE_PARAMETERS_START(1, 1)

Z_PARAM_CLASS(ce_get_iterator)

ZEND PARSE PARAMETERS END():
                zval *object = getThis();
spl_array_object *intern = Z_SPLARRAY_P(object);
                   if (zend_parse_parameters_none() == FAILURE) (
   return:
                 /* [[[ proto int ArrayObject::getFlags()
Get flags */
SPL_METHOD(Array, getFlags)
                  zval *object = getThis();
spl_array_object *intern = Z_SPLARRAY_P(object);
                   if (zend_parse_parameters_none() == FAILURE) (
    return;
                  RETURN_LONG(intern->ar_flags & "SPL_ARRAY_INT_MASK);
                    zval *object = getThis();
spl_array_object *intern = Z_SPLARRAY_P(object);
zend_long ar_flags = 0;
                    if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", &ar_flags) == FAILURE) (
     LIUB:
| 1309: intern-var_flags = (intern-var_flags & SPL_AMRAY_INT_MASK) | (ar_flags & 'SPL_AMRAY_INT_MASK);
| 1311: /* | | | | |
```

```
zval *object = getThis(), *array;
spl_array_object *intern = Z_SPLARRAY_P(object);
                            if (intern->nApplyCount > 0) {
  zend_error(E_WARNING, "Modification of ArrayObject during sorting is prohibited")
                           RETVAL_ARR(zend_array_dup(spl_array_get_hash_table(intern)));
spl_array_set_array(object, intern, array, OL, 1);
     1333: 1334: /* ([[ proto ArrayIterator ArrayObject::getIterator() 1335: Create a new Iterator from a ArrayObject instance */ 1336: SPL_MEMOO(Array, getIterator) 1337: [
                           tval *object = getThis();
spl_array_object *intern = Z_SPLARRAY_P(object);
HashTable *aht = spl_array_get_hash_table(intern)
                          if (tabl) (
   php_error_docref(NULL, R_MOTICE, "Array was modified outside object and is no longer an ar-
   attenty
                           ZVAL_OBJ(return_value, spl_array_object_new_ex(intern->ce_get_iterator, object, 0));
                       /* [[[ proto void ArrayIterator::rew.
Rewind array back to the start */
SPL_METHOD (Array, rewind)
                         zval *object = getThis();
spl_array_object *intern = Z_SPLARRAY_P(object);
                           if (zend_parse_parameters_none() == FAILURE) {
Jund(inte

1370: * ((( proto void Array)

1371: Seek to position. */

1372: SPL_METROC(Array, seek)

1373: [

1374: zend_long goos. -

1375: zval cbir.

1376: spl

1377:
                           spl_array_rewind(intern);
                           {
rend_long opos, position;
zval *object = getThis();
spl_array_object *intern = Z_SPLARRAY_P(object);
HashTable *aht = spl_array_get_hash_table(intern);
int result;
                           if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", sposition) == FAILURE) {
    return;
                           if (!abt) {
    php_arror_docref(NULL, R_MOTICE, "Array was modified outside object and is no longer an array");
    return;
                           opos = position;
                           if (position >= 0) { /* negative values are not supported */
    spl_array_rewind(intern);
    result = SUCCESS;
                              while (position-- > 0 && (result = spl_array_next(intern)) == SUCCESS);
                             ;
zend_throw_exception_ex(spl_ce_OutOfBoundsException, 0, "Seek position " ZEND_LONG_FMT " is out of range", op
       id03: المراسمية المراسمية
                            HashTable *aht = spl_array_get_hash_table(intern);
HashPosition pos, *pos_ptr;
                          t (labt) (

php_arror_docret(NULL, E_MOTICE, "Array was modified outside object and is no longer an array");
resource = 0;
resource = ALTIME;
                         if (spl_array_is_object(intern)) {
    /* We need to store the 'pos' since we'll modify it in the functions
    * we're going to call and which do not support 'pos' as parameter. */
pos_ptr = spl_array_ost_pos_ptr(aht, intern);
pos = "pos_ptr = spl_array_ost_pos_ptr(aht, intern);
    *count = 0;
spl_array_rewind(intern);
while ('pos_ptr != HT_INVALID_IDX &s spl_array_next(intern) -- SUCCESS) {
    *('count)**;
                          if (zend_parse_parameters_none() == FAILURE) {
                           spl_array_object_count_elements_helper(intern, &count);
        1464:
1465: RETURN_LONG(count);
1466: ) /* // *//
                         static void spl_array_method(INTERNAL_FUNCTION_PARAMETERS, char *fname, int fname_len, int use_arg) /* (((
                           {
spl_array_object *intern = Z_SPLARRAY_P(getThis());
HashTable *aht = spl_array_get_hash_table(intern);
zval function_name, params[2], *arg = NULL;
                         ZVAL_STRINGL(&function_name, fname, fname_len);
                          if (arg) {
    ZVAL_COPY_VALUE(sparams[1], arg);
                                      | intern-vnApplyCount++; | call_user_function_table | NULL, sfunction_name, return_value, arg ? 2 : 1, params, 1, NU | intern-vnApplyCount--; | nutern_value | arg ? 2 : 1, params, 1, NU | nutern_value | arg ? 2 : 1, params, 1, NU | nutern_value | arg ? 2 : 1, params, 1, NU | nutern_value | arg ? 2 : 1, params, 1, NU | nutern_value | arg ? 2 : 1, params, 1, NU | nutern_value | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, params, 1, NU | arg ? 2 : 1, p
                                    interfrequence.

(I (INN_NNM_ANG()) = 1 || send_parse_parameters_ex(IDN_PASSE_PARMM_QUIET, IDNN_NNM_ANG()), "#", sary -- FAILURE) (
send_threw_exception(spi_co_BacMethodcaliException, "Function expects exactly one argument", 0);
goto exit;
                                   )
VOLL_COPY_VALUE(sparams[1], arg);
intern->abgblyCount++;
call_user_function_ex(EE(function_table), NULL, sfunction_name, return_value, 2, params, 1, NULL);
intern->nApplyCount---;
```

```
ext/spl/spl_array.c
                                 HashTable *new_ht = Z_ARRVAL_P(Z_REFVAL(params[0]));
if (aht := new_ht) {
    spl_array_replace_hash_table(intern, new_ht);
    else {
        CC_DELREF(aht);
    }
}
                                       efree(Z_REF(params[0]));
zend_string_free(Z_STR(function_name));
                         #define SPL_ARRAY_METHOD(cname, fname, use_arg) \
SPL_METHOD(cname, fname) \
     1322: spl_array_method(INTERNAL_PRONCIDE_PARAM_PASTREMS) frame, sizeo((ffm: 1323))
1323: / ((ffm: 12 maryOS)set: name((fint Seort_Limps = SOST_AREGULAR))
1324: / ((ffm: 12 maryOS)set: name((fint Seort_Limps = SOST_AREGULAR))
1326: spl_aregular_SOST_AREGULAR)
1327: spl_aregular_SOST_AREGULAR)
1328: spl_aregular_SOST_AREGULAR)
1329: spl_aregular_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_AREGULAR_SOST_A
       1529:
| 1530: /* [[[ proto int ArrayObject::ksort([int $sort_flags = SORT_REGULAR ]]
| 1531: proto int ArrayIterator::ksort([int $sort_flags = SORT_REGULAR ])
     1311 prote int Army/Testentriabort (Int Soot_Time = One_Gallouth !)
1312 Sort the section by prot.
1313: Sort the section by prot.
1314: BPL_MBAY_METHOD(Army, knot, SPL_MBAY_METHOD_MBY_DEBR_ARM) /* ||| *
1315: * | * [[ | prote int Army/Method remains (callback omp_function) |
1316: * | prote int Army/Method remains (callback omp_function) |
1317: SOrt the entries by values user defined function. */ |
1318: SPL_MBAY_METHOD(Army, uncorr, SPL_ARMA_METHOD_MBLAGE) /* || )| */ |
1319: SPL_MBAY_METHOD(Army, uncorr, SPL_ARMA_METHOD_MBLAGE) /* || )| */ |
1340: * [[ | prote int Army/Method remains (callback omp_function) |
1340: * [ | prote int Army/Method remains (callback omp_function) |
1341: * | prote int Army/Method remains (callback omp_function) |
                         /* [[[ proto int ArrayCobject::uksort(callback cmg_function)
    proto int ArrayTerator:ruksort(callback cmg_function)
    Sort the entries by key using user defined function. */

SPL_ARRAY_METROO (Array, uksort, SPL_ARRAY_METROO_USE_ARG) /* ]]] */
        1541: SFL,ABAY_METROO (Array, uksort, SFL,ABAY_METROO_USE_ABG) /* )]) */
1544: * ([[ proto int ArrayObject:matsort!])
1545: * proto int ArrayObject:matsort!]
1546: * Drive or ArrayTectator:matsort!
1546: * Drive or ArrayTectator:matsort!
1548: * The Array Object of the ArrayTectator (STLABAY_METROO_USE_ABG) /* )]) */
1549: * The Array METROO (Array, matsort, SFLABAY_METROO_USE_ABG) /* )]) */
       1549;
1550; /* [[[] proto int ArrayObject:matcasesort() |
1551; proto int ArrayObject:matcasesort() |
1551; for the surfice by key unique case insensitive "natural order" algorithm. */
1551; for the surfice by key unique case insensitive "natural order" algorithm. */
1551; ** [[] proto intend [MILT August Constitution of the surfice or in the surfice o
                             {
    zval *object = getThis();
    spl_array_object *intern = Z_SPLARRAY_P(object);
    zval *entry;
    HashTable *aht = spl_array_get_hash_table(intern);
                                if (zend_parse_parameters_none() == FAILURE) (
   return;
                               if (spl_array_object_verify_pos(intern, aht) == FAILURE) {
    return;
                                if ((entry = zend_hash_get_current_data_ex(aht, spl_array_get_pos_ptr(aht, intern))) == NULL) {
    return;
                               if (Z_TYPE_P(entry) == IS_INDIRECT) {
  entry = Z_INDIRECT_P(entry);
  if (Z_TYPE_P(entry) == IS_UNDEP) {
    return;
  .estry);
1598: / ((() proto mixed)NULL ArrayIterator::key()
1597: Meturn current array key */
1598: 250_METBOO (Array, key)
1590: if (zend_parae -
1590: 1501:
                             if (zend_parse_parameters_none() == FAILURE) (
    return:
                            spl_array_iterator_key(getThis(), return_value);
} /* !!! */
                          void spl_array_iterator_key(zval *object, zval *return_value) /* ((( */
                               spl_array_object *intern = Z_SPLARRAY_P(object);
HashTable *aht = spl_array_get_hash_table(intern);
                             if (spl_array_object_verify_pos(intern, aht) == FAILURE) (
                               zend_hash_get_current_key_zval_ex(aht, return_value, spl_array_get_pos_ptr(aht, intern));
                             {
zval *object = getThis();
spl_array_object *intern = 2_SPLARRAY_P(object);
HashTable *aht = spl_array_get_hash_table(intern);
                               if (zend_parse_parameters_none() == FAILURE) (
                                if (spl_array_object_verify_pos(intern, aht) == FAILURE) {
   return;
                             spl_array_next_ex(intern, aht);
       if (splarray_object_verify_pos(intern, abt) == FAILURE) {
    RETURG_FAILE;
    slase {
    RETURG_BOOL(rand_bash_bas_more_elements_ox(abt, splarray_get_pos_ptr(abt, intern)) == SUCCESS);
}
if (zend_parse_parameters_none() == FAILURE) (
                               if (spl_array_object_verify_pos(intern, aht) == FAILURE) {
    RETURN_FALSE;
                                if (Z_TYPE_P(entry) == IS_INDIRECT) {
  entry = Z_INDIRECT_P(entry);
                               ZVAL_DEREF(entry);
RETURN_BOOL(2_TYPE_P(entry) == IS_ARRAY || (2_TYPE_P(entry) == IS_OBJECT 66 (intern->ar_flags 6 SPL_ARRAY_CHILD_ARRAYS_CNLY) == 0));
                          [
zval *object = getThis(), *entry, flags;
spl_array_object *intern = Z_SPLARRAY_P(object);
HashTable *aht = spl_array_get_hash_table(intern
        i. if (spl_array_object_verify_pos(intern, aht) == FAILURE) {
1692: return:
```

```
if ((entry = zend_hash_get_current_data_ex(aht, spl_array_get_pos_ptr(aht, intern))) == NULL) (
           if (Z_TYPE_P(entry) == IS_INDIRECT) {
  entry = Z_INDIRECT_P(entry);
                ]
if (instanceof_function(Z_OBJCE_P(entry), Z_OBJCE_P(getThis()))) {
    ZVAL_OBJ(return_value, Z_OBJ_P(entry));
    Z_ADDREF_P(return_value);
    return;
           ZVAL_LONG(sflags, intern->ar_flags);
spl_instantiate_arg_ex2(Z_OBJCE_P(getThis()), return_value, entry, &flags);
1113:

1720: /* ([[ proto string ArrayObject::serialize()
1721: Serialize the object */
1722: SEL_METROO(Array, serialize)
1723: [
1724: val *object = getThis();
1725: spl_array_object *intern = Z_SPLARRAY_P(obj
           [ val *object = getThis(); spl.array.object *intern = Z_SPLABRAY_P(object); HashTable *aht = spl.array.get_hash_table(intern); rval members; flags; php_serialize_date_t var_hash; smart_str but = (0);
            if (labl |
php_arror_docraf(WULL, R_MOTICE, "Array was modified outside object and is no longer an array");
seture;
           PHP_VAR_SERIALIZE_INIT(var_hash);
           ZVAL_LONG(&flags, (intern->ar_flags & SPL_ARRAY_CLONE_MASK));
             smart_str_appendl(sbuf, "x:", 2);
php_var_serialize(sbuf, sflags, svar_hash);
           ZVAL_ARR(smembers, intern->std.properties);
           php_var_serialize(sbuf, smembers, svar_hash); /* finishes the string *
           /* done */
PHP_VAR_SERIALIZE_DESTROY(var_hash);
           if (buf.s) {
   RETURN_NEW_STR(buf.s);
1777: (
1778: zval *object = getThis();
1779: spl_array_object *intern = Z_SPLARRAY_P(object);
           char *buf;
size_t buf_len;
const unsigned char *p, *s;
php_unserialize_data_t var_hash;
zval *mombers, *zflags, *array;
zend_long flags;
           if (zend_parse_parameters(ZEND_NUM_ARGS(), "s", sbuf, sbuf_len) == FAILURE) {
   return;
           if (buf_len == 0) {
           if (intern->nApplyCount > 0) {
  zend_error(E_MARNING, "Modification of ArrayObject during sorting is prohibited");
  return;
}
            zflags = var_tmp_var(&var_hash);
if (!php_var_unsertalize(zflags, sp, s + buf_len, &var_hash) || Z_TYPR_P(zflags) != IS_LONG) {
    orb outexcept;
            if (*p != ';') {
  goto outexcept;
           if (flags & SPL_ARRAY_IS_SELF) (
                 if (*p!-'a' ss *p!-'0' ss *p!-'C' ss *p!-'r') {
    qoto outexcept:
             array - var_tsp_var(svar_hash);

if (!php_var_unmerialize(array, sp, s + buf_len, svar_hash)
|| (@_TFPE_Varray) != 15_ABBAY is Z_TFPE_F(array) != 15_0BJECT)) {
geto cuttocopt;
                intern->ar_flags &= "SPL_ARRAY_CLONE_MASK;
intern->ar_flags |= flags & SPL_ARRAY_CLONE_MASK;
                if (2_TYPE_P(array) == IS_ARRAY) {
    rval_ptr_dtor(sintern->array);
    ZVAL_COPY(sintern->array, array);
} else {
    spl_array_set_array(object, intern, array, UL, 1);
            members = var_tmp_var(&var_hash);
if (!php_var_unserialize(members, &p, s + buf_len, &var_hash) || 2_TYFE_P(members) != IS_ARRAY) {
    goto outexcept;
             /* copy members */
object_properties_load(&intern->std, Z_ARRVAL_P(members));
           OUR EXCEPT:
PRE VAR_UNSERIALIZE_RESTROY(var_hash);

zend_throw_exception_ex(spl_ce_UnexpectedValueException, 0, "Error at offset " ZEND_LONG_PMT " of vzd bytes", (zend_long)((char*)p - buf), buf_le
```

```
ext/spl/spl_array.c
    1899: IBDO_MOL_TWO(0, treator_class)

1891: IBDO_MOL_TWO(0, treator_class)

1891: IBSO_EDA_MOL_TWO(0)

1891: IBSO_EDA_MOL_TWO(0)

1891: IBSO_EDA_MOL_TWO(0, array_tlerator_construct, 0, 0, 0)

1891: IBSO_EDA_MOL_TWO(0, array_tlerator_construct, 0, 0, 0)

1891: IBSO_EDA_MOL_TWO(0, array_tlerator_construct, 0, 0, 0)

1891: IBSO_EDA_MOL_TWO(0, array_tlerator_construct, 0, 0, 1)

1891: IBSO_EDA_MOL_TWO(0, index)

1890: IBSO_EDA_MOL_TWO(0, index)
  1901: INDO.BEGIN_ANG_INFO()
1902: EDBO_BEGIN_ANG_INFO().Indox)
1903: EDBO_BEGIN_ANG_INFO().Endox)
1904: INDO.BEGIN_FO().Endox)
1904: INDO.BEGIN_FO()
1904: INDO.BEGIN_FO()
1905: INDO.BEGIN_ANG_INFO()
1906: INDO.BEGIN_ANG_INFO().Value)
1906: INDO.BEGIN_ANG_INFO()
1906: INDO.BEGIN_ANG_INFO()
1910: INDO.BEGIN_ANG_INFO()
1910: INDO.BEGIN_ANG_INFO()
      1913: IND.RO.MAG.INVO)
1914:
1915: IND.RO.MAG.INVO(arginfo_array_exchangeArray, 0)
1916: IND.AMC.INVO(a, array)
1917: IND.RO.MAG.INVO(a, array)
1917: IND.RO.MAG.INVO(a)
1918: IND.RO.MAG.INVO(a)
1919: IND.RO.MAG.INVO(a)
      1934:
1935: ZEND_BEGIN_ARG_INFO(arginfo_array_void, 0)
1936: ZEND_END_ARG_INFO()
1937:
                             assid_

1993: 1994: static const zond_function_sntry spl_funcs_BocursivaArray/terator[] = {

1995: BFL_MG (Array, hacklidree, arginfo_array_void, ZEND_ACC_PUBLIC)

1996: BFL_MG (Array, getChildree, arginfo_array_void, ZEND_ACC_PUBLIC)

1998: []

1999: (**)]) */

2000:
        2001: /* ((( PHP_MINIT_FUNCTION(spl_array) */
2002: PHP_MINIT_FUNCTION(spl_array)
2003: {
                                       [REGISTE_UFL_CLASE_EX(ArrayObject, spl_array_object_new, spl_funca_ArrayObject);
REGISTE_UFL_RELEGISTERS (ArrayObject, Appropriate)
REGISTE_UFL_RELEGISTERS (ArrayObject, Appropriate);
REGISTE_UFL_RELEGISTERS (ArrayObject, Socialistable);
REGISTE_UFL_RELEGISTERS (ArrayObject, Countable);
REGISTE_UFL_RELEGISTERS (ArrayObject, Countable);
REGISTE_UFL_RELEGISTERS (ArrayObject, Countable);
REGISTER_UFL_RELEGISTERS (ArrayObject, Countable);
REGISTER_UFL_RELEGISTERS (ArrayObject, Countable);
REGISTERS_UFL_RELEGISTERS (ArrayObject, ArrayObject, Countable);
REGISTERS_UFL_RELEGISTERS (ArrayObject, Countable);
REGISTERS_UFL_RELEGISTERS (ArrayObj
                                         spl_handler_ArrayObject.offset = XtOffsetOf(spl_array_object, std);
                                       spl.handisr.Arsychper.cioss.abl = spl.arsychper.cioss
spl.handisr.Arsychper.csacliminston = spl.arsychper.cioss
spl.handisr.Arsychper.csacliminston = spl.arsychper.ciossion
spl.handisr.Arsychper.csacliminston = spl.arsy.pritc.dimension
spl.handisr.Arsychper.csacliminston = spl.arsy.handisr.dimension
spl.handisr.Arsychper.com.csaclimension = spl.arsy.handisr.dimension
spl.handisr.Arsychper.com.csaclimension = spl.arsy.handisr.dimension
                                         REGISTR_SP_IT_CLASS_EXArray/terator, spl_array_object_mew, spl_funcs_Array/terator);
REGISTR_SP_IT_CLASS_EXArray/terator, treator);
REGISTR_SP_INCLEDENTS (Array/terator), selection;
REGISTR_SP_INCLEDENTS (Array/terator), Seakhairerator);
REGISTR_SP_INCLEDENTS (Array/terator), Seakhairerator);
REGISTR_SP_INCLEDENTS (Array/terator), Seakhairerator);
REGISTR_SP_INCLEDENTS (Array/terator), containable);

                                           REGISTER_SPL_CLASS_CONST_LONG(ArrayObject, "STD_PROP_LIST", SPL_ARRAY_STD_PROP_LIST);
REGISTER_SPL_CLASS_CONST_LONG(ArrayObject, "ARRAY_AS_PROPS", SPL_ARRAY_ARRAY_AS_PROPS);
                                           REGISTER_SPL_SUR_CLASS_EX(RecursiveArrayIterator, ArrayIterator, spl_array_object_new, spl_tunca_RecursiveArrayIterator);
REGISTER_SPL_IMPLEMENTS (RecursiveArrayIterator, RecursiveIterator);
spl_ce_RecursiveArrayIterator_ope_Literator = spl_array_set_Literator;
                                         REGISTER_SPL_CLASS_CONST_LONG(RecursiveArrayIterator, "CHILD_ARRAYS_ONLY", SPL_ARRAY_CHILD_ARRAYS_ONLY);
                                         return SUCCESS;
```

```
ext/spl/spl_heap.h
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25.2.2018 Page 1 of 1
PRF Version 7

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 43: /* (if sp_lnstantiate_arg_es2 */
46: static inline int splinstantiate_arg_es2 (send_class_entry *pce, zval *retval, zval *argl, zval *arg2)
45: [46: zend_function *func* -pce>-constructor;
47: app_instantiate(pce, retval);
48:
   48: 2snd_call_method(retval, poe, sfunc, 2STR_VAL(func->common.function_name), ZSTR_LEN(func->common.function_name), NULL, 2, argl, arg2); 50: return 0; 51: ]
district | description | 
     79: /* ]]] */
80:
81: #endif /* SPL_ENGINE_H */
   81: #endif /* SPL_ENGINE_H
82:
83: /*
84: * Local Variables:
85: * c-basic-offset: 4
86: * tab-width: 4
87: * End:
88: * vim600: fdm-marker
89: * vim: noet sw-4 ts-4
90: */
```

```
ext/spl/spl_iterators.c
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| Action of the property of the verif-velow-up, please send are unable to |
| License@php.net as we can mail you a copy immediately.
                                   /* SIdS */
            30:
31: #include "php_spl.h"
32: #include "spl_functions.h"
32: #include "spl_engine.h"
44: #include "spl_iterators.h"
35: #include "spl_dractory.h"
36: #include "spl_array.h"
38: #include "spl_array.h"
38: #include "rend_ment_str.h"
  41 Findst voogs.
42 Fendst
43 Fendst
44: Findst roots,
44: Findst roots,
45: Findst roots,
46: Findst 
            64:
65: ZEND_BEGIN_ARG_INFO(arginfo_recursive_it_void, 0)
66: ZEND_END_ARG_INFO()
                            do {
    spl_dual_t_object 'it = %.SPLDML_TIP_(objval)
    spl_dual_t_object 'it = %.SPLDML_TIP_(objval)
    if (it-3dt_type == DIT_DBKnown) {
    sand_throw_secoption_swispl_os_logicException_0, 0,
    "The object is in an invalid state as the parent constructor was not called");
    return;
    return;
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                                        (var) = (object)->iterators[(object)->level].element; \
) while (0)
                                        #define SPL_FETCH_SUB_ELEMENT_ADDR(var, object, element) \
                                   static void spl_recursive_it_dtor(zend_object_iterator *_iter)
                                           spl_recursive_it_iterator *iter = (spl_recursive_it_iterator*)_iter;
spl_recursive_it_object = % SPLRECURSIVE_IT_P(siter->intern.data);
rend_object_iterator *sub_iters
                                        while (object->level > 0) {
   if (%2_ISUNDEF(object->iterators[object->level],robject)) {
        sub_tier = object->iterators[object->level],iterator;
        zend_iterator_dior(sub_tier);
        raul_tier_iter(oficion_tier);
        raul_tier_iter(oficion_tier);
        raul_tier_iter(oficion_tier);
        raul_tier_iterators[object->level].robject);
        raul_tier_iterators[object->leve
                                                        )
object->level--;
                                           .
object->iterators = erealloc(object->iterators, sizeof(spl_sub_iterator));
object->level = 0;
       187: zval_ptr_dtor(&iter->intern.data);
188: )
```

```
189:
190: static int spl_recursive_it_valid_ex(spl_recursive_it_object *object, zval *zthis)
191: {
                                          if(!object->iterators) {
   return FAILURE;
                                        while (level >=0) {
    sub_tter = object>>terators[level].iterator;
    if (sub_tter>>funca-valid(sub_tter) -- SUCCESS) {
    return SUCCES;
}
                                                    level--;
                                        | If (object->enditeration is object->in_iteration) (
| zend_call_method_with_0_params(this, object->e, sobject->enditeration, "enditeration", NULL), |
                                   static int spl_recursive_it_valid(zend_object_iterator *iter)
                                             return spl_recursive_it_valid_ex(Z_SPLRECURSIVE_IT_P(siter->data), siter->data);
                                        spl_recursive_it_object *object = 2_SPLRECURSIVE_IT_P(siter->data);
zend_object_iterator *sub_iter = object->iterators[object->level].iterator;
                                        return sub_iter->funcs->get_current_data(sub_iter);
                                        spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(siter->data);
zend_object_iterator *sub_iter = object->iterators[object->level].iterator;
                                     if (sub_iter->funcs->get_current_key) {
   sub_iter->funcs->get_current_key (sub_iter, key);
   else {
        ZVAL_LONG (key, iter->index);
   }
}
                                   static void spl_recursive_it_move_forward_ex(spl_recursive_it_object *object, zval *zthis)
                                     SPL_FETCH_SUB_ITERATOR(iterator, object);
                                             }
/* fall through */
case RS_START:
if (iterator->funcs->valid(iterator) -- FAILURE) {
    break;

                                                                                  doject-victarioni(e)pect-viewel], intere = Re_leari;
se = doject-victarioni(e)pect-viewel].cs;
cs = doject-victarioni(e)pect-viewel].cs)
se = doject-victarioni(e)pect-viewel].cs)pect;
if (doject-vicialHaschildren) (
if (do
                                                                                  if (Ec(exception)) (
if (!(object-riags & RIT_CATCH_GET_CBILD)) (
object-ricerators[object-rievel].state = RS_NEXT;
return;
) else (
rend_clear_exception();
                                                                                  | I ( ITTE (estval) |= IS_NBGET |
| has_Children = rend_is_true(retval) |
| tal_true(retval) |
| If ( ( to ) |= ( to ) |
| tal_true(retval) |
| if ( to ) |= ( to ) |
| case NT_LEAVES_CRY;
| case NT_
                                                                                               quto mest_slevel].state = RE_REEF;

| else {
    /- de out Province Into */
    /- the out Province Into */
    /- the out Province Into */
    /- this is not a leave, so salight f
    /- chip is not a leave, so salight f
    chip continue the output for the output f
    chip continue for the output for the output f
    chip continue for the output for the output f
}
                                                                                       if (object->nextElement) {
   zend_call_method_with_0_params(zthis, object->ce, sobject->nextElement, "nextelement", NULL);
                                                                                     }
object->iterators[object->level].state = RS_NEXT;
if (EG(exception)) {
   if (!(object->flags & RIT_CATCH_GET_CHILD)) {
                                                                                     return /* self */;
se RS_SELF:
                                                                                  mass rs_skir:
if (object->mextElement is (object->mode == RIT_SELF_FIRST || object->mode == RIT_CHILD_FIRST)) {
    zend_call_method_with_0_params(zthis, object->ce, sobject->nextElement, "nextElement", NULL);
                                                                                       if (object->mode == RIT_SELF_FIRST) (
   object->iterators[object->level].state = RS_CHILD;
                                                                                     object=>iterators(object=>level].state = RS_ERIES;
} else {
   object=>iterators(object=>level].state = RS_NEXT;
                                                                                Texturn /* soif */;

see NL_ORITION

see NL_OR
                                                                                if (EG(exception)) {
    if ((iob)ect-oflags & RIT_CATCR_CET_CBILD)) {
        if (iob)ect-oflags & RIT_CATCR_CET_CBILD)) {
            rend_clear_exception();
            rval_er_exception();
            rval_er_exception();
            rval_er_exception();
            rval_er_exception();
            rval_er_exception();
            rate = RE_NEXT;
            geto maxt_extept;
            rend = RE_NEXT;
            rend = RE_NEXT;

                                                                                  object->iterators[object->ievel].state = RO_NEXT;

| else {

object->iterators[object->level].state = RS_NEXT;
                                                                                  | object-viterators = ersalios(object-viterators, sisses(spl.sub_tterator) * (**object-viewel*1));
sub_tter = ce-opet_iterator(ce, schild, 0);
sub_tter = ce-opet_iterator(ce) = cobject_viterator(ce) = cobject_viterator(object-viewel).iterator = sub_ttery
object_viterators(object-viewel).iterator = sub_ttery
object_viterators(object-viewel).iterator = sub_ttery
object_viterators(object-viewel).iterator = sub_ttery
object_viterators(object-viewel).iterator = sub_ttery
if (sub_iter-viewed).iterators = cobject_viterators.iterators = cobject_viterators.iterators = cobject_viterators.iterators = cobject_viterators.iterators.iterators = cobject_viterators.iterators = cobject_viterators = cobjec
```

```
ext/spl/spl_iterators.c
                               ) no new elements ')

If (object-levels ')

                                       402: datic void spl_recursive_it_rewind_ex(spl_recursive_it_object *object, zval *zhhis)
411: send_object_iterator *sub_iter;
412: send_object_iterator *sub_iter;
413: SPL_FETCH_RUB_ITERATOR(sub_iter, object);
414: 416: 417.
while (dbject-blows);

sentiterator profits the state of 
                             )
object->iterators = erealloc(object->iterators, sizeof(spl_sub_iterator));
                          ]
if (!EG(exception) ss object->beginIteration ss !object->in_iteration) {
    zend_call_method_with_0_params(zthis, object->ce, sobject->beginIteration, "beginIteration", NULL);
                        spl_recursive_it_move_forward_ex(Z_SPLRECURSIVE_IT_P(siter->data), siter->data);
                          spl_recursive_it_rewind_ex(Z_SPLRECURSIVE_IT_P(siter->data), siter->data);
                     static zend_object_iterator *spl_recursive_it_get_iterator(zend_class_entry *ce, zval *zobject, int by_ref)
                         if (Py_ref) {
    zend_throw_exception(spl_ce_RuntimeException, "An iterator cannot be used with foreach by reference", 0);
    return NULL;
                          )
iterator - emalloc(sissof(spl_recursive_it_iterator));
object - Z_BERECURSIVE_IT_F(cobject);
if (object-iterators = NULL);
zend_arror(E_DRROR, "The object to be iterated is in an invalid state; "
"the parent constructor has not been called");
                    static comst zend.object_iterator_funcs spl_recursive_it_iterator_funcs = {
    spl_recursive_it_dior,
    spl_recursive_it_valid,
    spl_recursive_it_valid,
    spl_recursive_it_spl_recurrent_dist,
    spl_recursive_it_spl_recursive_it,
    spl_recursive_it_spl_recursive_it,
    spl_recursive_it_spl_recursive_it
    spl_recursive_it_revind,
    NOLL
       478: "
479: static void spl_recursive_it_it_construct (INTERNAL_FUNCTION_PARAMETERS, zend_class_entry *ce_base, zend_class_entry *ce_inner, recursive_it_it_type ris
                        zval *object = getThis();
spl_recursive_it_object *intern;
zval *iterator;
zend_class_entry *ce_iterator;
zend_long_mode, flags;
zend_eror_handling_eroc_handling;
zval caching_it, aggregate_retval;
                          zend_replace_error_handling(EH_THROW, spl_ce_InvalidArgumentException, &error_handling);
                          switch (rit_type) {
   case RTT_RecursiveTrealterator: {
    rwl caching_it_flags, "user_caching_it_flags = NULL;
    sode = RTT_RETF_FIRST;
    rlags = RTT_RETF_RETF;
}
                                      if (rend_parse_parameter_ex(IEME_PASSE_PARAME_QUIET, IEME_NUM_AMGE(), "olla", siterator, sflapp, suser_eaching_it_flapp, smode) — SUCCESS) (
if (instanceof_function(f_eMUT_P(iterator), read_cal_agreeqate)) {
    rend_call_membed_vito_parameteristartz, Z_GMUT_P(iterator), st_GMUT_P(iterator)-)iterator_func.if_new_iterator, "getiterator", taggregate
                                           iterator = &aggregate_retval;
} else {
   Z_ADDREF_P(iterator);
                                            spl_instantiate_arg_ex2(spl_ce_RecursiveCachingIterator, &caching_it, iterator, &caching_it_flags); zval_ptr_dtor(&caching_it_flags);
                                        } else {
iterator = NULL;
                                           break;
                                    ;
case RIT_RecursiveIteratorIterator
                                   default: (
  mode = RIT_LEAVES_ONLY;
  flags = 0;
                                      if (mend_pares_parameter_partEDD_PASE_PASME_OUTET_ IND_UND_RAGE(), 'oll', siterator, smode, sflage) = SUCCESS) (
if (intranced_function(LGNUTE_Piterator), send_pasyreopato) | if (intranced_function(LGNUTE_Piterator), send_pash_mathod_ith_Quarama(iterator, INDRUTE_Piterator), st_GNUTE_Piterator)-iterator_func.sf_pse_iterator, "getiterator", saggregate
                                           iterator = saggregate_retval;
) else {
   Z_ADDREF_P(iterator);
                           ; if (!iterator || !instanceof_function(Z_OBJCR_P(iterator), spl_ce_RecursiveIterator)) {
   if (!iterator) {
        vval_prt_dtor(iterator);
        vval_prt_dtor(iterator);
   }
                                 }
zend_throw_exception(spl_ce_InvalidArgumentException, "An instance of RecursiveItera
zend_restore_error_handling(terror_handling);
                         intern = Z_SPLESCURSIVE_IT_P (object);
intern-viterators = emalloc(sizeof(spl_sub_iterator));
intern-level = 0;
intern-level = mode;
intern-vilags = (int)flags;
intern-max_depth = -1;
                          intern->beginIteration = zend_hash_str_find_ptr(sintern->ce->function_table, "beginiteration", sizeof("beginiteration") = 1);
if (intern->beginiteration=>common.scope == ce_hase) {
   intern->beginiteration=SULL;
}
                          )
intern->endIteration = zend_hash_str_find_ptr(sintern->ce->function_table, "enditeration", sizeof("enditeration") = 1);
```

```
if (intern->endIteration->common.scope == ce_base) {
  intern->endIteration = NULL;
   561:
562:
              ,
interm->endChildren = zend_hash_str_find_ptr(&interm->ce->function_table, "endchildren", sizeof("endchildren") = 1);
if (interm->endChildren->common.scope == ce_base) {
             ]
intern-nextElement = rend_hash_str_find_ptr(sintern->ce->function_table, "nextelement", sizeof("nextElement") = 1);
if (intern-nextElement->common.scope == ce_hase) {
intern-nextElement-NULL|
intern-nextElement-NULL|
             ce_iterator = 2.08JCE_Piterator); /* respect inheritance, don't use spl_ce_BecursiveIterator */
intern-iterators[0].iterator = ce_iterator-yee_iterator(ce_iterator, iterator, 0);
ZNL_COMY_NUME(intern-iterators[0].ceb)eci, iterator);
intern-iterators[0].ce = ce_iterator;
intern-iterators[0].state = Rs_STMAT;
             if (EG(exception)) {
  zend_object_iterator *sub_iter;
               while (intern->level >= 0) {
    sub_iter = intern->iterators[intern->level].iterator;
    rend_iterator_dtor[sub_iter];
    rval_ptr_dtor(sintern->iterators[intern->level--].robject);
spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
             if (zend_parse_parameters_none() == FAILURE) {
   return;
    623: spl_recursive_it_rewind_ex(object, getThis()); 624: } /* }}) */
    626: /* [[[ proto bool RecursiveIteratorIterator::valid()
627: Check whether the current position is valid */
628: SPL_METHOD(RecursiveIteratorIterator, valid)
             {
   spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
             if (zend_parse_parameters_none() == FAILURE) {
             RETURN_BOOL(spl_recursive_it_valid_ex(object, getThis()) == SUCCESS);
           {
spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
zend_object_iterator *iterator;
             if (zend_parse_parameters_none() == FAILURE) {
             if (iterator->funcs->get_current_key) {
  iterator->funcs->get_current_key(iterator, return_value);
  else {
    RETURN_NULL();
           spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
zend_object_iterator *iterator;
zval *data;
             if (zend_parse_parameters_none() == FAILURE) {
   return;
             SPL_FETCH_SUB_ITERATOR(iterator, object);
              data = iterator->funcs->get_current_data(iterator);
             if (data) {
   ZVAL_DEREF(data);
   ZVAL_COPY(return_value, data);
    676: ZVAL_CO
677: }
678: } /* /// */
679:
             spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
             if (zend_parse_parameters_none() == FAILURE) {
    return;
            spl_recursive_it_move_forward_ex(object, getThis());
} /* | | | */
              spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
             if (zend_parse_parameters_none() == FAILURE) {
    return;
           ..., pound medical velterator RecursivelteratorIterator::getSubiterator([int level])
The current active sub iterator or the iterator at specified level */
[STL_METHOD[Recursivelterator]terator, getSubiterator)
[STL_METHOD[Recursivelterator]terator, getSubiterator)
[STL_METHOD[Recursivelterator]terator, getSubiterator)
[STL_METHOD[Recursivelterator]terator, getSubiterator)
[STL_METHOD[Recursivelterator]terator]terator.
             spl_recursive_it_object *object = 2_SPLRECURSIVE_IT_P(getThis());
zend_long level = object->level;
zval *value;
             if (zend_parse_parameters(ZEND_NUM_ARGS(), "|1", slevel) == FAILURE) {
    return;
             }
if (level < 0 || level > object->level) {
   RETURN_NULL();
             value = &object->iterators[level].zobject;
ZVAL_DEREF(value);
ZVAL_COPY(return_value, value);
           /* [[[ proto RecursiveIterator RecursiveIteratorIterator The current active sub iterator */ SPL_METHOD (RecursiveIteratorIterator, getInnerIterator) |
             if (zend_parse_parameters_none() == FAILURE) (
    742: SPL_FETCH_SUB_ELEMENT_ADDR(zobject,
744: ZVAL_DEREF(zobject);
746: ZVAL_COPY(return_value, zobject);
747: ) /* / j j */
             SPL_FETCH_SUB_ELEMENT_ADDR(zobject, object, zobject);
```

```
.
/* nothing to do */
1 /* ]]] */
                   if (zend_parse_parameters_none() == FAILURE) (
                )

/* nothing to do */

1 /* 111 */
                  /* [[[ proto bool RecursiveIteratorIterator::callHasChildren |
Called for each element to test whether it has children */
SPL_METHOD(RecursiveIteratorIterator, callHasChildren)
Tho: Galled For State of the Called For State of the C
                   {
spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
zend_class_entry *ce;
zval *zobject;
                    if (zend_parse_parameters_none() == FAILURE) (
   return;
                     if (!object->iterators) {
   RETURN_NULL();
                     SPL_FETCH_SUB_ELEMENT(ce, object, ce);
                    zobject = &object >> iterators[object -> level].zobject;
if (Z_TYPE_P(zobject) -- IS_UNDEF) {
    RETURN_FALSE;
                            else (
20mc_call_mathod_with_0_params(zobject, ce, NULL, "haschildren", return_value);
if (Z_TYPE_P(return_value) == IS_UNDEF) (
RETURN_FALSE;
                  Return children of current element */
SPL_METHOD (RecursiveIteratorIterator, callGetChildren)
                    spl_recursive_it_object *object = 2_SPLRECURSIVE_IT_P(getThis());
zend_class_entry *ce;
zval *zobject;
                    if (zend_parse_parameters_none() == FAILURE) (
    return;
                    SPL_FETCH_SUB_ELEMENT(ce, object, ce);
                     zobject = &object->iterators[object->level].zobject;
if (Z_TYPE_P(zobject) == IS_UNDEF) (
                         )

/* nothing to do */

1 /* ))) */
               /* [[[ proto void RecursiveIterstorIterstor::endChild
Called when end recursing one level */
SPL_METHOD (RecursiveIteratorIterator, endChildren)
                /* {{{ proto void RecursiveIteratorIterator::nextE.

Called when the next element is available */

SPL_METHOD (RecursiveIteratorIterator, nextElement)
                    if (zend_parse_parameters_none() == FAILURE) (
                .

/* nothing to do */

1 /* 111 */
                spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
zend_long max_depth = -1;
                     if (zend_parse_parameters(ZEND_NUM_ARGS(), "|1", smax_depth) -- FAILURE) {
    return:
                     return;
) else if (max_depth > INT_MAX) {
  max_depth = INT_MAX;
                   object->max_depth = (int)max_depth;
                Return the maximum accepted depth or false if any depth is allowed */
SPL_METHOD (RecursiveIteratorIterator, getMaxDepth)
                        spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
                    if (zend_parse_parameters_none() == FAILURE) (
                            else {
RETURN_LONG(object->max_depth);
                  static union _zend_function *spl_recursive_it_get_method(zend_object **zobject, zend_string *method, const zval *key)
                                                                                 *zobj;
                     if (!object->iterators) {
    phg_arror_docref(NULL, R_ERROR, "The %s instance wasn't initialized properly", ZSTR_VAL((*zobject)->ce->name));
                       zob1 = sobject->iterators[level].zobject:
                    | else {
  *zobject = Z_OBJ_P(zobj);
                       return function_handler;
                /* [[[ spl_RecursiveIteratorIterator_dtor */
static void spl_RecursiveIteratorIterator_dtor(zend_object *_object)
                    spl_recursive_it_object *object = spl_recursive_it_from_obj(_object);
zend_object_iterator *sub_iter;
                    if (cbject->iterators) {
   while (cbject->level >= 0) {
    sub_tier = object->iterators[object->level].iterator;
   zend_iterator_stor(sub_iter);
   zend_iterator_stor(sub_iter);
   zend_iterator_stor(sub_iter);
   zend_iterator_stor(sub_iter);
   zend_iterator_stor(sub_iter);
   zend_iterator_stor(sub_iterators[object->level--].zobject);
   zend_iterator_stor(sub_iterators[object->level--].zobject);
   zend_iterator_stor(sub_iterators[object->level--].zobject);
   zend_iterator_stor(sub_iterators);
   zend_iterat
```

```
/* [[[ spl_RecursiveIteratorIterator_free_storage */
static void spl_RecursiveIteratorIterator_free_storage(zend_object *_object)
                                      spl_recursive_it_object *object = spl_recursive_it_from_obj(_object);
                                    if (object->iterators) {
    efree(object->iterators);
    object->iterators = NULL;
    object->level = 0;
}
                                /* [[[ spl_RecursiveIteratorIterator_new_ex */
static zend_object *spl_RecursiveIteratorIterator_new_ex(zend_class_entry *class_type, int init_prefix)
                                        spl_recursive_it_object *intern;
                                    intern = zend_object_alloc(sizeof(spl_recursive_it_object), class_type);
      S88: mart_str_append(idintern-pertic()], ", 0);

509: mart_str_append(idintern-pertic()], ", 2);

509: mart_str_append(idintern-pertic()], ", 2);

711: mart_str_append(idintern-pertic()], ", ", 2);

721: mart_str_append(idintern-pertic()], ", ", 2);

731: mart_str_append(idintern-pertic()], ", ", 0);

734: mart_str_append(idintern-pertic()], ", ", 0);

735: mart_str_append(idintern-pertic(), ", ", 0);

736: ]
        977:
978: zend_object_std_init(&intern->std, class_type);
979: object_properties_init(&intern->std, class_type);
                                    intern->std.handlers = &spl_handlers_rec_it_it;
return &intern->std;
                                  /* {{{ spl_RecursiveIteratorIterator_new */
static zend_object *spl_RecursiveIteratorIterator_new(zend_class_entry *class_type)
                                        return spl RecursiveIteratorIterator new ex(class type, 0):
            993: /* [[[ spl_RecursiveTreeIterator_new */
994: static zend_object *spl_RecursiveTreeIterator_new(zend_class_entry *class_type)
          996: return spl_RecursiveIteratorIterator_new_ex(class_type, 1);
997: }
      1000: ZEND_BEGIN_ARG_INFO_EX(arginfo_recursive_it__construct, 0, 0, 1)
1001: ZEND_ARG_OBJ_INFO(0, iterator, Traversable, 0)
  1004: IED_MO_AB_INVO[):

1007: IED_MO_IN_AB_INVOEX[arginfo_recursivw_it_getSubiterator, 0, 0, 0)

1007: IED_MO_IN_CINOT0. | reveal)

1007: IED_MO_IN_CINOT0. | reveal)

1009: IED_MO_IN_CINOT0. | reveal)

1010: IED_MO_IN_CINOT0. | reveals |

1010: IED_MO_IN_CINOT0. | reveals |

1011: IED_MO_IN_CINOT0. | reve
1012: ISBM_RED.AMA_INFO();
1014: statle ceast road_function_serry spl_tuncs_Recursivateratoriterator[] = [
1014: statle ceast road_function_serry spl_tuncs_Recursivateratoriterator.] = [
1015: SFL_RED.AMA_INFO();
1015: SFL_RED.AMA_INFO();
1016: SFL_RED.AMA_INFO();
1017: SFL_RED.AMA_INFO();
1018: SFL_RED.AMA_INFO();
1019: SFL_RED
  | 1034: jp
| 1035: | fastic void spl=recursive_tree_iterator_get_prefix(spl_recursive_it_chject *chject, zval *return_value)
| 1037: | 1038: | smart_str str = (0);
| 1039: | zval | haz_most;
| 1040: | fast | level;
                                  for (lavel = 0; lavel < object-slevel; +iavel) {
lond.cail_method.with_parame(cobject-streamors[lavel].cobject, object-streamors[lavel].co, NULL, "hasmost", than_mext);
if (L_TPREAL_moxel; = 1.TRUNG) {
lond.cail_method.moxel; = 1.TRUNG|
lond.cail_method.cail_moxel; = 1.TRUNG|
lond.cail_method.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_moxel.cail_mox
                                                                           else {
smart_str_append1(sstr, ZSTR_VAL(object->prefix[2].s), ZSTR_LEN(object->prefix[2].s));
                                    | load_sil_pethod_sil_p_S_params(sobject->iterators[svai].nobject, object->iterators[svai].
| T__ITTP(hat_params) = T__ITMONE
| T__ITTP(hat_params) = T__ITMONE
| T__ITTP(hat_params) = T__ITMONE
| T__ITTP(hat_params) = T__ITMONE
| STR_ITMONE
| STR_ITMON
                                    smart_str_append1(sstr, 2STR_VAL(object->prefix[5].s), ZSTR_LEN(object->prefix[5].s));
smart_str_0(sstr);
                                    RETURN_NEW_STR(str.s);
                                    rend_object_iterator *iterator = object->iterators[object->level].iterator;
rval *data;
rend_error_handling error_handling;
                                static void spl_recursive_tree_iterator_get_postfix(spl_recursive_it_object *object, zval *return_va
                                      RETVAL_STR(object->postfix(0].s);
Z_ADDREF_P(return_value);
rend_long part;
cha* prefix;
stize_t prefix_len;
spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
                                    if (zend_parse_parameters(ZEND_NUM_ARGS(), "ls", spart, sprefix, sprefix_len) == FAILURE) (
                                    if (0 > part || part > 5) {
    zend.throw.acception_ex[spi_ca_OutOfRangeException, 0, "Use RecursiveTreeIterator::PMETIX_" constant");
    return;
```

```
ext/spl/spl_iterators.c
                                      1128: /* [[[ proto string RecursiveTreeIterator::getPrefix()
1130: Returns the string to place in front of current element */
1131: SPL_METHOD (RecursiveTreeIterator, getPrefix)
                         spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
                         if (zend_parse_parameters_none() == FAILURE) (
    return;
 1147;
1148 /* ((( proto void RecursiveTreolisastor:setPostfix(string profix)
1169: Sets postfix as used in getPostfix() */
1101: SPL_MERON(RecursiveTreolisator, setPostfix)
1101: () sPL_MERON(RecursiveTreolisator, setPostfix)
1101: () sPL_MERON(RecursiveTreolisator, setPostfix)
1101: () sPL_MERON(Recursive_Lit_oble*
                     spl_recursive_tree_iterator_get_prefix(object, return_value);
} /* ||) */
                         spl_recursive_it_object *object = Z_SPIRECURSIVE_IT_P(getThis());
char* postfix;
size_t postfix_len;
if (zend_parse_parameters(ZEND_NUM_ARGS(), "s", spostfix, spostfix_len) -- FAILURE) {
                         spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(qetThis());
                         if (zend_parse_parameters_none() == FAILURE) (
                         if(!object->iterators) {
    rend_throw_exception_ex(spl_ce_LogicException, 0,
    "The object is in an invalid state as the parent constructor was not called");
 {
   spl_recursive_it_object *object = Z_SPLRECURSIVE_IT_P(getThis());
                        if (zend_parse_parameters_none() == FAILURE) (
                         if(lobject-viterators) {
    zend.throw_exception_ex(spl_ce_logicException, 0,
    "The object is in an invalid state as the parent constructor was not called");
    return;
                       spl_recursive_tree_iterator_get_postfix(object, return_value);
                     /* [[[ proto mixed RecursiveTreeIterator::current()
Returns the current element profixed and postfixed */
SPL_METHOD(RecursiveTreeIterator, current)
                         if (zend_parse_parameters_none() == FAILURE) (
   return;
                           if((object->iterators) {
    rend_throw_axception_exippl_cx_logicException, 0;
    rend_throw_axception_exippl_cx_logicException, 0;
    return
    r
                         ) else {
    RETURN_NULL();
                           spl_recursive_tree_iterator_get_postfix(object, &postfix);
                         str = zend_string_slicc(Z_STRLEN(prefix) + Z_STRLEN(entry) + Z_STRLEN(postfix), 0);
ptr = ZSTR_VAL(str);
                        memcpy(ptr, Z.STRVAL(prefix), Z.STRLEN(prefix));

ptr + Z.STRLEN(prefix);

memcpy(ptr, Z.STRVAL(entry), Z.STRLEN(entry));

ptr + Z.STRLEN(entry);

memcpy(ptr, Z.STRVAL(postfix), Z.STRLEN(postfix));

ptr + Z.STRLEN(postfix);
                     /* ([[ proto mixed RecursiveTreeIterator::key()
Returns the current key prefixed and postfixed */
SPL_METHOD(RecursiveTreeIterator, key)
                         spl_recursive_it_object
rend_object_iterator
raul
char
rend_string
spl_recursive_it_object
rend_object_iterator
rptix
relix key_postfix, key_copy;
rend_string
spl_recursive_it_object
rierator;
rptix
rend_string
spl_recursive_it_object
rierator;
relix key_copy;
reli
                         if (zend_parse_parameters_none() == FAILURE) (
    return;
                         if (iterator->funcs->get_current_key) {
  iterator->funcs->get_current_key(iterator, &key);
  else {
    IVAL_NULL(&key);
}
                         memcpy(ptr, Z_STRVAL(prefix), Z_STRLEN(prefix));
ptr += Z_STRLEN(prefix);
memcpy(ptr, Z_STRVAL(key), Z_STRLEN(key));
```

```
25.2.2018 Page 4 of 11
  132: IRD. BC. MC. INV(), mode)
132: IRD. BC. MC. INV(), part)
132: IRD. Mc. INV(), part)
132: IRD. Mc. INV(), part)
132: IRD. Mc. INV(), part)
133: IRD. Mc. INV(), part)
134: IRD. Mc. INV(), part)
135: IRD. Mc. INV(), part)
136: IRD. Mc. INV(), part)
137: IRD. Mc. INV(), part)
138: IRD. Mc. INV(), part)
139: IRD. Mc.
        1395: | 1
1395: | 141 MBQ_0
1397: | 141 MBQ_0
                                           class_type-viterator_tuncs_tr_valid = NULL;
dlass_type-viterator_tuncs_tr_valid = NULL;
if (class_type-viterator_tuncs_truncs_tuncs)
class_type-viterator_tuncs_tuncs_tuncs_valid = NULL;
class_type-viterator_tuncs_tuncs_valid = NULL;
class_type-viterator_tuncs_tuncs_valid_tuncs_class_terator_tuncs_lerator_class_type-viterator_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_valid_tuncs_v
        1370: |
1371: | sendif
1372: |
1372: |
1373: | static union _send_function 'spl_dual_it_get_method(rend_object **object, rend_string 'method, const zval
                                               union _zend_function *function_handler;
spl_dual_it_object *intern;
                                             intern = spl_dual_it_from_obj(*object);
                                             return function_handler;
                                        #if MBO_0
int spl_dual_it_call_method(char *method, INTERNAL_FUNCTION_PARAMETERS)
                                             zval ***func_params, func;
zval retval;
int arg_count;
int current = 0;
int success;
void **p;
spl_dual_it_object *intern;
                                             intern = Z_SPLDUAL_IT_P(qetThis());
                                             ZVAL_STRING(&func, method, 0);
                                             func_params = safe_emalloc(sizeof(zval **), arg_count, 0);
                                             current = 0;
while (arg_count--> 0) {
func_params[current] = (rval **) p - (arg_count-current);
current++;
                                           success - SUCCES;
) alse ()
success - SUCCES;
) alse ()
success - FAILURE;
) while to call to:th()*, intern->inner.co->name, method;
success - FAILURE;
140: drue(fine_parms.,
140: seturn success,
140: se
      1442; datina APPRONT_CRECK_CTOR(intern) PP_CRECK_CTOR(intern, Appenditerator)
1449; tastic inline int spl_daal_it_fetch(spl_dual_it_object *intern, int check_more);
1449; tastic inline int spl_cit_check_flag*(zend_long flags)
1449; tastic inline int spl_cit_check_flag*(zend_long flags)
1449; tastic_compo ent = 0;
1450; tastic_compo ent = 0;
1451; tastic_compo ent = 0;
1451; tastic_compo ent = 0;
1452; tastic_compo ent = 0;
1453; tastic_compo ent = 0;
1454; tastic_compo ent = 0;
1455; tastic_compo ent = 0;
1455; tastic_compo ent = 0;
1456; tastic_compo ent = 0;
1457; tastic_compo ent = 0;
1458; tastic_compo ent = 0;
1458; tastic_compo ent = 0;
1458; tastic_compo ent = 0;
1451; tastic_compo ent 
147;
1483 static spl_dual_it_dbject* spl_dual_it_construct(INTERNAL_FUNCTION_FARAMETERS, zond_class_entry *ce_base, zend_class_entry *ce_inner, dual_it_sys_
1480: real
1480: real
1480: spl_dual_it_dbject* *intern;
1480: spl_dual_it_dbject* *intern;
                                             intern = Z_SPLDUAL_IT_P(getThis());
                                             intern~odit_type = dit_type;
switch (dit_type) {
    case DTL_ballstreator: {
    intern~o.limit.offset = 0; /* start at beginning */
    intern~o.limit.offset = 0; /* start at beginning */
    intern~o.limit.comit = 1; /* get all */
    if (seed_parse_parameter_throw(EBS_MNM_MSG10, *0)11*, szobject, ce_inner, sintern~o.limit.offset, sintern~o.limit.comit) == FAID
    return WG10.
                                                                    ]

If (Intern-vu.limit.count < 0 is Intern-vu.limit.count !- -1) [

rend_frico_acception(spl_cu_OutOffangeArception, "Parameter count must either be -1 or a value greater than or equal 0", 0);

return NULl.
                                                                         break;
                                                                    )
if (spl_cit_check_flags(flags) != SUCCESS) (
```

```
ext/spl/spl_iterators.c
                               zend_throw_exception(spl_ce_InvalidArgumentException, "Flags must contain only one of CALL_TOSTRING, TOSTRING_USE_KEY, TOSTRING_USE_CURRENT, TO
                                        O);
urn NULL;
                          )
intern->u.caching.flags |= flags & CIT_PUBLIC;
array_init(&intern->u.caching.zcache);
break;
                          zend_class_entry *ce_cast;
zend_string *class_name;
                          if (zend_parse_parameters_throw(ZEND_NUM_ARGS(), "O|S", &zobject, ce_inner, &class_name) == FAILURE) {
    return NULL;
                          ]
c = Z_OBJCE_P(zobject);
if (instanceof_function(ee, zend_ce_iterator)) {
    if (instanceof_function(ee, zend_ce_iterator)) {
        if (ifee_Cast = zend_lookup_class(class_name))
        || instanceof_function(ee, ce_cast)
        || iee_cast-oper_iteratory
}
                                       t zend_throw_exception(spi_ce_logicException, "Class to downcast to not found or not base class or does not implement Traversable", 0); return NULL;
                               if (2_TYPE(retval) != IS_OBJECT || !instanceof_function(2_OBJCE(retval), zend_ce_traversable)) {
   zend_throw_exception_ex(spl_ce_LogicException, 0, "%s::getIterator() must return an object that implements Traversable", ZSTR_VAL
                                      return NULL;
                           )
break;
                   Case DIT_Appenditerator:

zend_replace_zeror_handling(EL_THROW, spl_ce_invalidArgumentException, serror_handling);

zend_replace_zeror_handling(EL_THROW, spl_ce_invalidArgumentException, serror_handling);

zend_call_method_with_parame_(intern-va_spend.zerzyit, spl_ce_hrzyiterator, sspl_ce_hrzyiterator->constructor, "_construct", WOLL);

zend_call_method_with_parame_(intern-va_method_zeror_paramethod_call_replace_handling);

zeturn_intern_va_spend.zeror_paramethod_call_replace_handling);

zeturn_intern_va_spend.zeror_paramethod_call_replace_handling);

zeturn_intern_va_spend.zeror_paramethod_call_replace_handling);

zeturn_intern_va_spend.zeror_paramethod_call_replace_handling);

zeturn_intern_va_spend.zeror_paramethod_call_replace_handling);

zend_long_call_replace_handling(zeror_paramethod_call_replace_handling);

zend_long_call_replace_handling(zer
                          intern->u.repex.use_flags = IEBD_NUM_ABGS() >= 5;
intern->u.repex.flags = 0;
intern-v.repex.flags = 0;
if (isen_parse_parsecter_throw(IEBD_NUM_ABGS(), "OB|ll1", szobject, ce_inner, srepex, smode, sintern->u.repex.flags, sintern->u.repex.preg_flags.
                         | If mode < 0 || node >= REGIT_MOGR_MAX) |
| zend_throw_exception_ex(spl_co_invalidArgumentException, 0, "Illegal mode " EEND_LONG_PHT, mode);
| return NULL;
                          intern->u.regex.mode = mode;
intern->u.regex.regex = zend_string_copy(regex);
                           zend_replace_error_handling(ER_TRROW, spl_ce_InvalidArgumentException, &error_handling);
intern-bu.regex.pce = pcre_get_compiled_regex_cache(regex);
zend_restore_error_handling(serror_handling);
                         if (intern->u.regex.pce == NULL) {
    /* pcre_get_compiled_regex_cache has already sent er:
    return NULL;
                           .
php_pcre_pce_incref(intern->u.regex.pce);
break:
                     if (zend_parse_parameters_throw(ZEND_NUM_ARGS(), "O", szobject, ce_inner) == FAILURE) {
    return NULL;
                if (inc_refcount) {
    ZVAL_COPY(&intern->inner.zobject, zobject);
} else {
    ZVAL_COPY_VALUE(&intern->inner.zobject, zobject);
}
                intern->inner.ce = dit_type == DIT_iteratorIterator ? ce : Z_OBJCE_P(robject);
intern->inner.object = Z_OBJ_P(zobject);
intern->inner.iterator = intern->inner.co->ject_iterator(intern->inner.ce, zobject, 0);
1813;

1813; /* ((() proto void Filteriterator::_construct(Iterator it))

1814: Create an Iterator from another iterator //

1815: SPL_MEROD(Filteriterator, construct)

1817: SPL_MEROD(Filteriterator, construct)

1817: SPL_SPLOSALIT_CONSTRUCT(INTERNAL_PRISTNER, spl_ce_Filteriterator, zend_ce_iterator, DIT_Filteriterator))

1819: (1815) /* // () proto void CallbackFilteriterator)
                return intern;
...., III proto void CallbackFilterIterator:__const
1821: Create an Iterator from another iterator */
1822: SPL_METHOD(CallbackFilterIterator, __construct)
1823: {
                 spl_dual_it_object *intern;
                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                if (!Z_ISUNDEF(intern->inner.zobject)) {
  zval *value = sintern->inner.zobject;
                 ZVAL_DEREF(value);
ZVAL_COPY(return_value, value);
else {
    RETURN_NULL();
  1651:
1652: static inline void spl_dual_it_free(spl_dual_it_object *intern)
                if (intern->inner.iterator && intern->inner.iterator->funcs->invalidate_current) {
   intern->inner.iterator->funcs->invalidate_current(intern->inner.iterator);
                 if (Z_TYPE(intern->current.data) != IS_UNDEF) {
   zval_ptr_dtor(&intern->current.data);
   zvAl_ptmDEF(&intern->current.data);
                 ]
if (intern-wdit_type = DIT_SachingIterator || intern-wdit_type = DIT_BecursiveCachingIter
if (C_TVPE(intern-va.caching.setr) |= IS_DBDF) |
real_pt__ffor(intern-va.caching.setr))
rVBC_DBFE(intern-va.caching.setr))
```

```
1683:
1684:
                                            if (!intern->inner.iterator) (
  return FAILURE;
    1694: static inline int spl_dual_it_fetch(spl_dual_it_object *intern, int check_more)
1696: {
1697: zwal *data:
                                            zval *data;
                                          spl_dual_it_free(intern);
if (theck_more || i spl_dual_it_valid(intern) == SUCCESS) {
data = intern">-intern">-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-intern'>-inte
                                                if (intern-liner.iterator->funcs-ppt_current_key) {
   intern-liner.iterator->funcs-ppt_current_key (intern-liner.iterator, sintern->current.key),
   vol.ptr_dnor(sistern-ocurrent.key);
   vol.ptr_dnor(sistern-ocurrent.key);
   vol.ptr_dnor(sistern-ocurrent.key);
}
                                                                )
peturn EG(exception) ? FAILURE : SUCCESS:
                                     static inline void spl_dual_it_next(spl_dual_it_object *intern, int do_free)
                                       {
    if (do_free) {
        spl_dal_it_free(intern);
    } else if (interm->inner.iterator) {
        sea_throw_error(NDLL, "The inner constructor wasn't initialized with an iterator instance");
        return;
    return;
                                          intern->inner.iterator->funcs->move_forward(intern->inner.iterator);
intern->current.pos++;
| 1731: | 1731: /* ([[ proto void ParentIterator::rewind() | 1733: proto void IteratorTerator::rewind() | 1734: Sewind the Iterator
    1735: */
1736: SPL_METHOD (dual_it, rewind)
                                          spl_dual_it_object *intern;
                                          if (zend_parse_parameters_none() == FAILURE) {
   return;
    1743: 1743: 1744: SPL_FETCH_AND_CHECK_DUAL_IT(in 1745: 1746: spl_dual_it_rewind(intern); 1747: spl_dual_it_fetch(intern, 1); 1748: ) /* // )]; */
.... op-_mass__int(RESER, 1)]

1748; | / - | | / - |

1749; | / - | | / - |

1750; | / - | | / - |

1750; | / - | |

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                                          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
  1931 BRLEFICLAND_CHECK_DOAL_TIGHTerm, get 1964  
19651 RETURN_BOOL(E_TYPE(interm-current.data)  
19651 /*)) */
19651 /*)) to the state of the state 
                                   if (zend_parse_parameters_none() == FAILURE) {
    return:
                                          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
1784: BFL/BTCL/BNC_GROCK_GROLT: LINEau, ye...
1785: 1
1785: I ( _TTFL/Intern-courrent.key) | - 12_UNDE
1786: Val Value - Lineau-courrent.key)
1791: VAL Value - Lineau-courrent.key
1790: VAL_GREFF(value);
1790: VAL_GREFF(value);
1791: | alse (
1791: VALUE | Also |
1791: | alse (
1791: Value);
1791: | also (
1791: Value);
1791:
                                          if (Z_TYPE(intern->current.key) != IS_UNDEF) {
  zval *value = &intern->current.key;
                                     SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                                     if (Z_TYPE(intern->current.data) != IS_UNDEF) (
   zwal *value = &intern->current.data;
    1814: 2011 Value - Eintern-Journent.d:

1815: 1816: ZVAL_DEREF(value);

1817: ZVAL_COFY(return_value, value);

1818: ] else {

1819: RETURN_NULL();

1820: ]
    spl_dual_it_object *intern;
      1830:

1831: if (zend_parse_parameters_none() == FAILURE) {

1832: return:
                                          SPL FETCH AND CHECK DUAL IT(intern. getThis()):
                                              spl_dual_it_next(intern, 1);
spl_dual_it_fetch(intern, 1);
                                     static inline void spl_filter_it_fetch(zval *zthis, spl_dual_it_object *intern)
                                          {
zval retval;
                                          zval_ptr_dtor(sretval);
                                                       if (EG(exception)) {
   return;
    | 1893: | 1860: |
| 1860: |
| 1861: |
| 1862: static inline wold spl_filter_it_rewind(zval *zthis, spl_dual_it_object *intern)
        1866: )
1867:
1868: static inline void spl_filter_it_mext(zval *zthis, spl_dual_it_object *intern)
                                            spl_dual_it_next(intern, 1);
```

```
ext/spl/spl_iterators.c
                                 spl_filter_it_fetch(zthis, intern);
                                spl_dual_it_object *intern;
                              SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
spl_filter_it_rewind(getThis(), intern);
                                 spl_dual_it_object *intern;
                              if (zend_parse_parameters_none() == FAILURE) (
   return:
 1901.
1902: /* ((( proto void SecurativeCallhackFilterIterator::_construct(SecurativeIterator it, callhack func)
1903: Create a SecurativeCallhackFilterIterator from a SecurativeIterator */
1904: EFI_MEROIGNEESINGCALINGCFILTERATOR (__construct)
1905: ()
1906: EFI_MEROIGNEESINGCALINGCFILTERATOR (__construct)
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                              SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
spl_filter_it_next(getThis(), intern);
. #031 {
1906. spl_dual_it_construct(INTERMAL_FUNCTION_PABAM_PASTERG, spl_ca_RecursiveCallbackFilterIterator, spl_ca_RecursiveIterator, DIT_RecursiveCaltractor)
1906. spl_dual_it_construct(INTERMAL_FUNCTION_PABAM_PASTERG, spl_ca_RecursiveCallbackFilterIterator, spl_ca_RecursiveCaltractor)
1906. spl_dual_it_construct(INTERMAL_FUNCTION_PABAM_PASTERG, spl_dual_it_ca_RecursiveCaltractor)
1906. spl_dual_it_construct(INTERMAL_FUNCTION_PABAM_PASTERG, spl_dual_it_ca_RecursiveCaltractor)
1906. spl_dual_it_ca_RecursiveCaltractor(INTERMAL_FUNCTION_PABAM_PASTERG, spl_dual_it_ca_RecursiveCaltractor(INTERMAL_FUNCTION_PABAM_PASTERG, spl_dual_it_ca_RecursiveCaltractor(INTERMAL_FUNCTION_PABAM_PASTERG, spl_dual_it_ca_Recursive
 1918: Check whether the inner iterator's current element has children */
1919: SPL_METHOD(RecursiveFilterIterator, hasChildren)
1920: [
                            spl_dual_it_object *intern;
zval retval;
                                if (zend_parse_parameters_none() == FAILURE) {
    return;
                                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                                rend.call.method_with.C.pareme(kinters-)inner.zobject, intern-)inner.ce, NULL, "haschildren", sretval);
if (L.TPE(retval) != 12_UNDEF (
RETUNDLEVAL(valter), 0, 1);
) alse (
RETUNDLEVAL(valter),
 1938: /* [[[ proto RecursiveFilterIterator RecursiveFilterIterator::getChildren()
1939: Return the inner Iterator's children contained in a RecursiveFilterIterator */
1940: BFI_METHOO(RecursiveFilterIterator, getChildren)
                              spl_dual_it_object *intern;
zval retval:
                                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                              rend_call_method_with_0_params(sintern->inner.robject, intern->inner.ce, NULL, "getchildren", sretval);
if (!RG(exception) is 2_TPE(retval) != 15_NNDEF) (
spl_instantiae_arg_wit_GADSTE_P(getThis()), return_value, sretval);
                            i
zval_ptr_dtor(sretval);
) /* !!! */
                        /* [[[ proto RecursiveCallbackFilterIterator RecursiveCallbackFilterIterator::getChild
Recurs the Inner Iterator's children contained in a RecursiveCallbackFilterIterator
SPL_METROC(RecursiveCallbackFilterIterator, getChildren)
                                if (zend_parse_parameters_none() == FAILURE) (
    return;
                                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                                zend_call_method_with_O_params(sintern->inner.zobject, intern->inner.ce, NULL, "getchlidren", sretval);
if (ISG(exception) is 2_TYPE(retval) != 12_UNDEF) (
spl_instantate_ray_ex/2_CBOTEC_P(setThis()), return_value, sretval, sintern->u.cbfliter->fci.function_name);
                              zval_ptr_dtor(&retval);
 1376: 1 /* )]] */
1977: /* {[[ proto void ParentIterator::_construct (RecursiveIterator it) 1378: Create a ParentIterator from a RecursiveIterator */ 1379: SPL_METHOD (ParentIterator, _construct) 1380: 1
 1960: {
1961: spl_dual_it_construct(INTERNAL_FUNCTION_PARAM_PASSTREG, spl_ce_ParentIterator, spl_ce_RecursiveIterator, DIT_ParentIterator);
1982: ) /* / )) */
1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 1982: 198
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13
 if (zend_parse_parameters_none() == FAILURE) {
    return;
                                 if (Z_TYPE(intern->current.data) == IS_UNDEF || Z_TYPE(intern->current.key) == IS_UNDEF) {
    RETURN_FALSE;
                                if (zend_call_function(fci, fcc) != SUCCESS || 2_ISUNDEF_P(return_value)) {
    RETURN_FALSE;
                              spl_dual_it_object *intern;
rend_string *result, *subject;
size_tount = 0;
rval roount, *replacement, tmp_replacement, rv;
pors2_match_data* *match_data;
pors2_code *re;
latt rc;
                                 if (Z_TYPE(intern->current.data) == IS_UNDEF) (
    RETURN_FALSE;
                                if (intern->u.regex.flags & REGIT_USE_KEY) {
    subject = zval_get_string(&intern->current.key);
                              } else {
  if (Z_TYPE(intern->current.data) == IS_ARRAY) {
```

```
2058:
2059:
2060:
                   RETURN_FALSE;
                   ubject = zval_get_string(sintern->current.data);
               | | profil_matchine, (ECRE_STR)ESTL_VAL(subject), ESTR_LEN(subject), 0, 0, match_data, php_pers_mctx());

RETURL_MODINE_D= 0;

php_pers_free_match_data(match_data);

break;
                   ase maily mode_larg_actor_intert.data);
voil_prof(lost liter=rocar_data);
voil_prof(lost liter=rocar_data);
voil_prof(lost liter=rocar_data);
plp_prof, match_inp;(inter=-va.sepsx.pos, 2STR_VAL(sub)sect), 2STR_LEN(sub)sect), azcount,
sinter=-varrent.data; inter=-va.repsx.mode -= REGIT_MOS_ALL_MATCHES, inter=-va.repsx.use_flags, intern
RETVAL_DBOU(L_LVAL(zcount) > 0);
break;
                 case REGIT_MORE_SPLIT:
rval_ptr_dro((inferr>current.data);
rval_ptr_dro((inferr>current.data);
psp__cres_upitt_imp(inferr>current.data);
psp__cres_upitt_imp(inferr>current.data);
psp__cres_upitt_imp(inferr>current.data);
psp__cres_upitt_imp(inferr>current.data));
RETVAL_ROU(count > 1);
hreak;
                   ase RESIT_MODE_MEPLACE:
replacement = read_tasd_groperty(intern=>rid_co, getThis(), "replacement", sizeof("replacement")-1, 1, arv);
VINL_COF*(rent_replacement, replacement);
conver_to_string(stap_replacement);
replacement = replacement;
replacement = replacement;
                   } result = php_pcre_replace_impl(intern->u.regex.pce, subject, ZSTR_VAL(subject), ZSTR_LEN(subject), Z_STR_P(replacement), -1, &c
                   if (intern->u.regex.flags & REGIT_USE_KEY) {
  zwal_ptr_dtor(&intern->current.key);
  zvAL_STR(&intern->current.key, result);
                   if (replacement == stmp_replacement) {
  zval_ptr_dtor(replacement);
           if (intern->u.regex.flags & REGIT_INVERTED) {
   RETVAL_BOOL(Z_TYPE_P(return_value) != IS_TRUE);
            provide string release (subject);
           spl_dual_it_object *intern = Z_SPLDUAL_IT_P(getThis());
           spl_dual_it_object *intern;
          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
 2148: RETURN_LONG(intern->u.regex.mode);
2149: } /* ]]] */
2151: /* ((( proto bool RegexIterator::setMode(int new_mode,
2152: Set new operation mode */
2153: SPL_METHOD(RegexIterator, setMode)
 2154: {
2155: spl_dual_it_object *intern;
2156: zend_long mode;
           if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", &mode) -- FAILURE) {
   return;
              if (mode < 0 || mode >= REGIT_MODE_MAX) {
    send_throw_exception_ex(spl_ce_invalidArgumentException, 0, "Illegal mode " ZENO_LONG_FMT, mode);
    return; '* NULL */
           SPL_FETCH_AND_CHECK_DUAL_IT(intern, qetThis());
______CMECK_DUAL_IT(1:
2169: intern->u.regex.mode = mode;
2170: } /* }}} */
          spl_dual_it_object *intern;
          if (zend_parse_parameters_none() == FAILURE) {
    return;
spl_dual_it_object *intern;
zend_long flags;
           if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", &flags) == FAILURE) (
           SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
2199:
2200: intern->u.regex.flags = flags;
2201: } /* /// */
SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
           if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", spreg_flags) == FAILURE) (
           SPL_FETCH_AND_CHECK_DUAL_IT(intern, qetThis());
            intern->u.regex.preg_flags = preg_flags;
intern->u.regex.use_flags = 1;
         /* [[] proto void RecursiveRegexiterator:_construct(RecursiveIterator it, string regex [, int mode [, int flags [, int preg_flags]]].
Creato an RecursiveRegexiterator from another recursive iterator and a regular expression */
SEV_METROS(ReservieVeRegexiterator,_construct)
2242: {
2243: spl_dual_it_construct(INTERNAL_FUNCTION_PARAM_PASSTRNU, spl_ce_RecursiveRegexIterator, spl_ce_RecursiveIterator, DIT_Rec
2244: | // | // | //
2245: spl_dual_it_construct(INTERNAL_FUNCTION_PARAM_PASSTRNU, spl_ce_RecursiveRegexIterator, spl_ce_RecursiveIterator, DIT_Rec
2244: | // | // | // |
```

```
ext/spl/spl_iterators.c
                           spl_dual_it_object *intern;
zval retval;
                              SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                           rend_call_method_with_0_params(&intern->inner.zobject, intern->inner.ce, NULL, "getchiidren", &retval)
if (IEG(exception)) {
    val args[3]
                                   IVAL_COPY(sargs[0], sretval);
IVAL_STR_COPY(sargs[1], intern->u.regex.regex);
IVAL_LONG(sargs[2], intern->u.regex.mode);
IVAL_LONG(sargs[3], intern->u.regex.lags);
IVAL_LONG(sargs[4], intern->u.regex.preg_flags);
                                  spl_instantiate_arg_n(Z_OBJCE_P(getThis()), return_value, 5, args);
                                   zval_ptr_dtor(sargs[0]);
zval_ptr_dtor(sargs[1]);
                              zval_ptr_dtor(&retval);
/* || | */
                        SPL_METHOD(RecursiveRegexIterator, accept)
                             spl_dual_it_object *intern;
                           if (zend_parse_parameters_none() == FAILURE) (
                           SPL_FETCH_AND_CHECK_DUAL_IT(intern, qetThis());
                           if (Z_TYPE(intern->current.data) == IS_UNDEF) {
   RSTURM_FALSE;
} else if (Z_TYPE(intern->current.data) == IS_ARRAY) {
   RETURM_BOOL(rend_hash_num_elements(Z_ARRWAL(intern->current.data)) > 0);
                             zend_call_method_with_0_params(getThis(), spl_ce_RegexIterator, NULL, "accept", return_value);
 2291:
2298: /* [[[ spl_dual_it_dtor */
2299: static void spl_dual_it_dtor(zend_object *_object)
                             spl_dual_it_object *object = spl_dual_it_from_obj(_object);
                           spl_dual_it_free(object);
                          /* ([[ spl_dual_it_free_storage */
static void spl_dual_it_free_storage(zend_object *_object)
                                spl_dual_it_object *object = spl_dual_it_from_obj(_object);
                           if (object->dit_type == DIT_AppendIterator) {
    zend_iterator_ditor(object->u.append.iterator);
    if (Z_TYPE(object->u.append.zarrayit) != IS_UNDEF) {
        rval_ptr_dtor(iobject->u.append.zarrayit);
    }
}
                           if (object->dit_type == DIT_CachingIterator || object->dit_type == DIT_RecursiveCachingIterator) {
   zval_ptr_dtor(&object->u.caching.zcache);
                      #if MANE_PCRE || MANE_SOMBLED_PCRE
if (object->dit_type == DTT_Megaziterator) |
if (object->dit_type == DTT_Megaziterator) |
if (object->integer_pob) |
ptp_crc_mod_merat(object->u.reger_pob);
                     spl_dual_it_object *intern;
 2366: intern = zend_object_alloc(sizeof(spl_dual_it_object), class_type);
2368: intern->dit_type = DIT_Unknown;
....
   2369:
2370: zend_object_std_init(sintern->std, class_type);
2371: object_properties_init(sintern->std, class_type);
 2371: object_properties_init(&intern->std, class_typ
2372:
2373: intern->std.handlers = sspl_handlers_dual_it;
2374: return (intern->std;
2375: )
2376: /* | | | | | */
2377: |
 239: SEMD_SEGIM_MOC_INFO(arginfo_filter_it__construct, 0)
2390: SEMD_GRO_SINFO(), iterator, Iterator, 0)
2380: SEMD_GRO_ANG_INFO();
2380: SEMD_GRO_ANG_INFO();
2380: SEMD_GRO_ANG_INFO();
2381: SEMI_GRO_ANG_INFO();
2382: SEMI_GRO_ANG_INFO();
2382: SEMI_GRO_ANG_INFO();
2383: SEMI_ME(FilterIterator, _construct, _arginfo_filerIterator, _construct, _arginfo_filerIterator, _construct, _arginfo_filerIterAng_INFO();
2382: SEMI_ME(FilterIterator, _construct, _arginfo_filerIterAng_INFO();
2383: SEMI_ME(FilterIterAng, _construct, _arginfo_filerIterAng_INFO();
2383: SEMI_ME(FilterIterAng, _construct, _arginfo_filerIterAng_INFO();
2383: SEMI_ME(FilterIterAng, _construct, _arginfo_filerIterAng_INFO();
2383: SEMI_ME(FilterIterAng, _construct, _arginfo_filerIterAng_INFO();
2380: SEMI_ME(FilterIterAng, _construct, _arginfo_filerIterAng_INFO();
2
                      2404: SEND_REGIN_ME_INFO(arginfo_recursive_callback_filter_it_construct, 0)
2406: EBD_ABC_DEVIC(0, iterator, RecursiveIterator, 0)
2406: EBD_ABC_DEVIC(0, iterator, RecursiveIterator, 0)
2407: EBD_ABC_DEVIC(0, iterator)
2408: IRIN_DEO_ABC_DEVIC(0)
2409: IRIN_DEO_ABC_DEVIC(0, iterator)
2409: IRIN_DEO_ABC_DEVIC(0, iterator)
2409: IRIN_DEO_ABC_DEVIC(0, iterator)
2409: IRIN_DEO_ABC_DEVIC(0, iterator)
2410: IRIN_DEO_ABC_DEVIC(0, iterator)
2411: IRIN_DEO_ABC_DEVIC(0, iterator)
2412: IRIN_DEO_ABC_DEVIC(0, iterator)
2414: IRIN_DEO_ABC_DEVIC(0, iterator)
2414: IRIN_DEO_ABC_DEVIC(0, iterator)
2414: IRIN_DEO_ABC_DEVIC(0, iterator)
2414: IRIN_DEO_ABC_DEVIC(0, iterator)
2415: IRIN_DEO_ABC_DEVIC(0, iterator)
2416: IRIN_DE
 2420: static comat send_function_entry spl_funce_NecursiveFilterIterator[] = {
2422: SPL_ME (MecursiveFilterIterator, __construct, asginfc_parent_tr__construct, IREN_ACC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN_CAC_FURN
```

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  2486: | ......w ant splint_it_valid(spl_dual_it_object *intern)
2487: | FAILURE / SOCCESS */
2489: If (intern-vu.limit.count != -1 as intern-current.pos >= intern-vu.limit.offset + intern-vu.limit.count)
2489: | setume FAILURE;
2490: | sleet
2490: | slee
       2494: 2495: static inline void spl_limit_it_seek(spl_dual_it_object *intern, zend_long pos) 2496: {
                                                  | The count of the
                                             The control of the co
                                                                  while (pos > intern->current.pos && spl_dual_it_valid(intern) == SUCCESS) {
    spl_dual_it_next(intern, 1);
                                                                  if (spl_dual_it_valid(intern) == SUCCESS) {
    spl_dual_it_fetch(intern, 1);
     2330: |
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2338: 
     2340: " (If prote void LimitIterator::rewind()
2341: " (If prote void LimitIterator::rewind()
2342: Rewind the iterator to the specified starting offset */
2343: REWINDO(LimitIterator, rewind)
2344: {
2344: [
       ....wern-ou.limit.offa
2551: /* (// proc bool limitIterator:valid)
2551: Omec whether the current element is valid //
2551: STL_BERO(LimitIterator), valid)
2551: STL_BERO(LimitIterator), valid)
2551: STL_BERO(LimitIterator), valid)
          ...
2558: SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
2559:
Assist * SETURE BOOLigo_Limit_it_validinters) = SUCCESS);*/
2561: * RETURE_BOOLigo_Limit_it_validinters) = 3 | | inters-current.pos < inters->u.limit.offset + inters_
Li_BODEFs);
                                             SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
       2571: spl_dual_it_next(intern, 1);
2573: spl_dual_it_next(intern, 1);
2573: if (intern->u.limit.count =- 1 || intern->current.pos < intern->u.limit.offset + intern->u.limit.count) {
2574: spl_dual_it_fcetch(intern, 1);
                                                  spl_dual_it_object *intern;
zend long pos:
                                                  if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", spos) -- FAILURE) {
    return;
       18921 | / 1)| /

18921 | / 1|| proto int LimitTerator:getFomition()

2895. Meture the current position //

2895. #FILEMENO(inititerator, systemation)

28971 |

2897. #FILEMENO(inititerator, systemation)

28971 |

2897. #FILEMENO(inititerator, systemation)

28971 |

2897. #FILEMENO(inititerator)

28001 | #FILEMENO(initerator)

28001 | #FILEMENO(initerator)

28001 | #FILEMENO(initerator)

28001 | #FILEMENO(initerator)
                                        :
static const zend_function_entry spl_funcs_SeekableIterator[] = {
    SPL_ABSTRACT_ME(SeekableIterator, seek, arginfo_seekable_it_seek);
    PHP_FE_END
```

```
ext/spl/spl_iterators.c
                  static cost send_function_entry spl_f
SPL_ME_(instituerator, perfect, SPL_ME_(instituerator, p
 75514:

**G855 static inline int spl_caching_it_valid(spl_dual_it_chject *intern)
72554: {
72654: return intern->u.caching_flags & CIT_VALID ? SUCCESS : FAILURE;
72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 72636: 7
__ = .iz_WALID ? SUCCESS : FAILURE;
2500; static inline int spl_caching_it_has_maxt(spl_dual_it_object *intern)
2641; return spl_dual_it_walid(intern);
2642; return spl_dual_it_walid(intern);
2643; pl
                          if (spl_dual_it_fetch(intern, 1) == SUCCESS) {
  intern->u.caching.flags |= CIT_VALID;
                              /* Full cache ? */
if (intern->u.caching.flags & CIT_FULL_CACHE) {
   zval *key = &intern->current.key;
   zval *data = &intern->current.data;
                                        ZVAL_DEREF(data);
2_TEX_DORREF_P(data);
array_ser_ray_Lexy_Lexy(2_ARRVAL(intern->u.caching.zeache), key, data);
rval_ptr_dtor(data);
                                 // Recursion ? */

If (intern-dit.type -- DIT_RecursiveCachingterator) {

If (intern-dit.type -- DIT_RecursiveCachingterator) {

rval (sviu), schildren, filaps;

rand_call_method_with_Darams(sintern-diner.robject, intern-diner.ce, NOIL, "haschildren", sretval);

if (Ed(exception)) {
                                                 ]
elbs {

if (rand_is_true(sretvall)) {

rend_call_method_with_0_parame(sintern->inner.robject, intern->inner.ce, NULL, "getchildren", szchildr

rend_call_method_with_0_parame(sintern->inner.robject, intern->inner.ce, NULL, "getchildren", szchildren

                                                     rand_call_method_with_Darama(sintern->inner.zobject, :
f( ED(exception)) {
    vval_ptr_dtor(sachildren);
    f( intern->in-acception() aps c CIT_CATCH_GET_CHILD) {
        rand_clear_exception();
        slee {
            vval_ptr_dtor(sretval);
            return)

                                                     ]
| size {
| SVAL_DOMO(strlags, intern->u.caching.flags & CTL_FUBLIC);
| spl_instantiate_arg_ex2(spl_ce_RecursiveCachingTerator, sintern->u.caching.zchildren, szchildren, szflags);
| zval_ptr_dtor(szchildren);
                                               proal_ptr_dtor(sretval);
if (En(exception))
if (intern-va.caching.flags & CIT_CATCH_GET_CHILD) {
    rend_clear_exception();
} else {
    return)

;
if (intern->u.caching.flags & (CIT_TOSTRING_USE_INNER(CIT_CALL_TOSTRING)) {
   int use_copy;
   zval expr_copy;
}

                                        zval expt_copy;
if (intern->u.caching.flags & CIT_TOSTRING_USE_INNER) {
   ZVAL_COPY_VALUE(sintern->u.caching.zstr, sintern->inner.zobject);
   else {
    ZVAL_COPY_VALUE(sintern->u.caching.zstr, sintern->current.data);
}
                                        luse_copy = zend_make_printable_zval(&intern->u.caching.zstr, &expr_copy);
if (use_copy) {
    ZVAL_COPY_VALUE(&intern->u.caching.zstr, &expr_copy);
}
                                        } else (
Z_TRY_ADDREF(intern->u.caching.zstr);
                               spl_dual_it_next(intern, 0);
else (
intern->u.caching.flags s= 'CIT_VALID;
#717:
#718: static inline wold spl_caching_it_rewind(spl_dual_it_object *intern)
#719: [
#720: spl_dual_it_rewind(intern);
#721: sead_sub_clean(f_swRW_itntern-ye.caching.tcache));
#721: spl_caching_it_next(intern);
 2733: Rewind the iterator */
2734: SPL_METHOD (Caching Iterator, rewind)
2735: {
                          spl_dual_it_object *intern;
                       if (zend_parse_parameters_none() == FAILURE)
                        SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                        spl_caching_it_rewind(intern);
/* || /* || /* |
                    /* {{{ proto bool CachingIterator::valid(}}
Check whether the current element is valid */
SPL_METHOD(CachingIterator, valid)
                          spl_dual_it_object *intern;
                       if (zend_parse_parameters_none() == FAILURE) (
                        SPL_FETCH_AND_CHECK_DUAL_IT(intern, qetThis());
                        RETURN_BOOL(spl_caching_it_valid(intern) == SUCCESS);
                        spl_dual_it_object *intern;
                        if (zend_parse_parameters_none() == FAILURE)
                       SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                     spl_caching_it_next(intern);
} /* /// */
                    Check whether the inner iterator has a valid next element */
SPL_METHOD(CachingIterator, hasNext)
                           spl_dual_it_object *intern;
                        if (zend_parse_parameters_none() == FAILURE) ;
return;
                          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                    /* ([[ proto string CachingIterator::__toString()
    Roturn the string representation of the current element */
SPL_METHOD(CachingIterator, __toString)
                          spl_dual_it_object *intern;
                        SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                          if (!(intern->u.caching.flags & (CIT_CALL_TOSTRING|CIT_TOSTRING_USE_KEY|CIT_TOSTRING_USE_CURRENT|CIT_TOSTRING_USE_LINER))) {
    zend_throw_exception_ex(spl_ce_BadMethodCallException, 0, "%s does not fetch string value (see CachingIterator::__construct)", ZSTR_VAL(Z_OBJCE_F
                       if (intern->u.caching.flags & CIT_TOSTRING_USE_KEY) {
    ZVAL_COPY(return_value, sintern->current.key);
```

```
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          return;
) else if (intern-vu.caching.flags & CIT_TOSTRING_USE_CURRENT) {
    ZVAL_COPY(return_value, &intern->current.data);
    convert_to_atring(return_value);
    return;
         }
if (2_TYPE(intern->u.caching.zstr) == IS_STRING) {
    RETURN_STR_COPY(2_STR_P(4intern->u.caching.zstr));
          | else (
   RETURN_EMPTY_STRING();
2821: Set given index in cache */
2822: SPL_METHOD (CachingIterator, offsetSet)
2823: (
          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
          if (zend_parse_parameters(ZEND_NUM_ARGS(), "Sz", &key, &value) == FAILURE) {
    return;
          Z_TRY_ADDREF_P(value);
zend_symtable_update(Z_ARRVAL(intern->u.caching.zcache), key, value);
          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
          if (!(intern->u.caching.flags & CIT_FULL_CACHE)) {
   zend_throw_exception_ex(spl_ce_BadMethodCallExcep
          if (zend_parse_parameters(ZEND_NUM_ARGS(), "S", skey) -- FAILURE) {
   return;
          if ((value = zend_symtable_find(Z_ARRVAL(intern->u.caching.zca
zend_error(E_NOTICE, "Undefined index: %s", ZSTR_VAL(key));
return;
          SPL_FETCH_AND_CHECK_DUAL_IT(intern, qetThis());
          if (!(intern->u.caching.flags & CIT_FULL_CACHE)) {
   zend_throw_exception_ex(spl_ce_BadMethodCallExceptio
                           irse_parameters(ZEND_NUM_ARGS(), "S", skey) == FAILURE) (
          zend_symtable_del(Z_ARRVAL(intern->u.caching.zcache), key);
        /* [[[ proto bool CachingIterator::offsetExist:
Return whether the requested index exist *,
SPL_METROD(CachingIterator, offsetExists)
          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
         if (!(intern->u.caching.flags & CIT_FULL_CACHE))
  zend_throw_exception_ex(spl_ce_BadMethodCallExc
->name));
  return;
          if (zend_parse_parameters(ZEND_NUM_ARGS(), "S", &key) == FAILURE) (
   return;
2916: 2917: /* [[[ proto bool CachingIterator::getCache() 2917: /* [[[ proto bool CachingIterator::getCache() 2918: Return the cache */ 2919: SPL_METHOD(CachingIterator, getCache) 2920: [ 2920: [ psl_dual_it_object *intern;
          if (zend_parse_parameters_none() == FAILURE) {
   return;
          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
 2948: SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
2949:
2949:
2949:
          SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
          if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", &flags) -- FAILURE) {
   return;
          )
if ((intern-vu.caching.flags & CIT_CALL_TOSTRING) != 0 && (flags & CIT_CALL_TOSTRING) == 0) {
    zend_throw_exception(spl_ca_invalidArgumentException, "Onsetting flag CALL_TO_STRING is not possible", 0);
    return;
          ) if ((intern-vu.caching.flags & CIT_TOSTRING_USE_INNER) != 0 & (flags & CIT_TOSTRING_USE_INNER) -= 0) (
zeed_ihrow_axception(spl_ce_InvalidArgumentException, "Onsetting flag TOSTRING_USE_INNER is not possible", 0);
returns)
           )
if ((flags & CIT_FULL_CACHE) != 0 && (intern->u.caching.flags & CIT_FULL_CACHE) == 0) {
             /* clear on (re)enable */
zend_hash_clean(Z_ARRVAL(intern->u.caching.zcache));
           intern->u.caching.flags = (intern->u.caching.flags & "CIT_PUBLIC) | (flags & CIT_PUBLIC);
```

```
ext/spl/spl_iterators.c
                                                   spl_dual_it_object *intern;
                                                                                                                                                                                                                                                                                                                                                                                             tion, 0, "%s does not use a full cache (see CachingIterator::__construct)", ZSTR_VAL(Z_OBJCE_P(qet
1007:

1008: INM.BEONLAMO.INFO.EX(arginfo.caching.it_construct, 0, 0, 1)
1009: INM.BEONLAMO.INFO.EX(arginfo.caching.it_construct, 0, 0, 1)
1009: INM.BEONLAMO.INFO(0, itself)
1011: INM.BEONLAMO.INFO(0, itself)
1011: INM.BEONLAMO.INFO(0, itself)
1014: INM.BEONLAMO.INFO(0, itself)
1014: INM.BEONLAMO.INFO(0, itself)
1016: INM.BEONLAMO.INFO(0, itself)
1016: INM.BEONLAMO.INFO(0, itself)
1016: INM.BEONLAMO.INFO(0, itself)
1019: INM.BEONLAMO.INFO(0, itself)
1019: INM.BEONLAMO.INFO(0, itself)
1019: INM.BEONLAMO.INFO(0, itself)
1019: INM.BEONLAMO.INFO(0, itself)
1304: IBBLEONAMIC.NOOL)

3050: STALE (Contingituration, _construct, _arginfo_caching_it__construct, _IBBLACC_PUBLIC)

3050: STALE (Contingituration, _construct, _arginfo_caching_it__construct, _IBBLACC_PUBLIC)

3050: STALE (Contingituration, _rewind, _arginfo_caching_it__construct, _IBBLACC_PUBLIC)

3051: STALE (Contingituration, _rewind, _arginfo_caching_it__construct, _IBBLACC_PUBLIC)

3051: STALE (Contingituration, _construct, _arginfo_caching_it__construct, _toud, _IBBLACC_PUBLIC)

3051: STALE (Contingituration, _construct, _arginfo_caching_it__construct, _toud, _IBBLACC_PUBLIC)

3051: STALE (Contingituration, _getTlags, _arginfo_caching_it__construct, _toud, _IBBLACC_PUBLIC)

3051: STALE (Contingituration, _getTlags, _arginfo_caching_it__construct, _toud, _IBBLACC_PUBLIC)

3051: STALE (Contingituration, _getTlags, _arginfo_caching_it__construct, _IBBLACC_PUBLIC)

3051: STALE (Contingituration, _getTlags, _arginfo_caching_it__offactor, _IBBLACC_PUBLIC)

3052: STALE (Contingituration, _getTlags, _arginfo_caching_it__offactor, _IBBLACC_PUBLIC)

3053: STALE (Contingituration, _getTlags, _arginfo_caching_it__offactor, _IBBLACC_PUBLIC)

3054: STALE (Contingituration, _getTlags, _arginfo_caching_it__offactor, 
     3050; {
3051: spl_dsal_t_construct(INTERNAL_FUNCTION_FARAM_FASSIERU, spl_ce_RecursiveCachingIterator, spl_ce_RecursiveIterator, DIT_RecursiveCachingIterator);
3052: | /* | | * | | * |
                                                   spl_dual_it_object *intern;
                                                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                                                spl dual it object *intern:
                                                if (zend_parse_parameters_none() == FAILURE) (
   return;
                                                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                                                   if (Z_TYPE(intern->u.caching.zchildren) != IS_UNDEF) {
  zval *value = &intern->u.caching.zchildren;
                                                ZVAL_DEREF(value);
ZVAL_COPY(return_value, value);
else {
   RETURN_NULL();
     1999;
1991; static comet zend_function_entry spl_funcs_RecursiveCashingiterator() = (
1997: BFL_ME (RecursiveCashingiterator, __construct, __arginfo_cashing_rec_it___construct, __BED_LAC_FORDITO)
1999: BFL_ME (RecursiveCashingiterator, __anglinfo_cashing_rec_usive_it__cond, _BED_LAC_FORDITO)
1100: PRP_FE_DD
  3103: /* ((( proto void IteratorIterator::__construct(Traversable it) 1304: Create an iterator from anything that is traversable */ 3305: 8PL_MENHOD(IteratorIterator, __construct) 3306: (
  | 1366: [
137: | sp__dai_lt_construct(ENTENNAL_PASSTREO, spl_co_iteratoriterator, zend_co_traversable, DIT_iteratoriterator);
| proj_dai_lt_construct(ENTENNAL_PASSTREO, spl_co_iteratoriterator, zend_co_traversable, DIT_iteratoriterator);
| proj_dai_lt_construct(ENTENNAL_PASSTREO, spl_co_iteratoriterator);
| proj_dai_lt_construct(ENTENNAL_PASSTREO, spl_construct(ENTENNAL_PASSTREO, spl_construct
  111: IND.BO.AG.INFO();

111: STATE CORREST IND. AGE (INFO);

111: STATE CORREST IND. AGE (INFO);

111: STATE CORREST IND. AGE (INFO);

111: STATE (INFO);

112: STATE 
  118: SPLWE(mallt, key, arginto_recursiv
119: SPLWE(mallt, current, arginto_recursiv
110: SPLWE(mallt, next, arginto_recursiv
110: SPLWE(mallt, pext, arginto_recursiv
1112: SPLWE(mallt, getmenterator, arginto_recursiv
1112: SPLWE(mallt, getmenterator, arginto_recursiv
1112: SPLWE(mallt, getmenterator, getm
{
    spl_dual_it_object *intern;
                                             if (zend_parse_parameters_none() == FAILURE) {
  1151;
1591, PSL_FETCH_AND_CHECK_DOAL_IT(interm, getTh
1153; RETURN_BOOL(intern-sinner.iterator-sfunce
1154:1 /* "));
1155:
1155:
1156: /* ([[ proto mixed NobesindIterator:rkey()
1157: Return inner Iterators key() ' * (
1159: SSL_ENTOC (NobesindIterator, key)
1160: SSL_ENTOC (NobesindIterator, key)
1160: SSL_ENTOC (NobesindIterator, key)
1160: SSL_ENTOC (NobesindIterator, key)
1160: SSL_ENTOC (NobesindIterator)
1160: SSL_ENTOC (Nobes
                                                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
RETURN_BOOL(intern->inner.iterator->funcs->valid(intern->inner.iterator) == SUCCESS);
                                                if (zend_parse_parameters_none() == FAILURE) (
                                                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                                                if (intern-liner.iterator-)funcs->pet_current_key) {
   intern-liner.iterator->funcs->pet_current_key(intern-)inner.iterator, return_valu)
   else {
     BETURN_NULL();
}
     3172: )
3173: ) /* /// */
3174:
```

```
3175: /* ((( proto mixed NoRewindIterator::current()
3176: Return inner iterators current() */
3177: SPL_METHOD(NoRewindIterator, current)
                                    spl_dual_it_object *intern;
zval *data;
                            SPL_FITCH_AND_CHECK_DUAL_IT(intern, getThis());
data = intern>inner.iterator>funcs->get_current_data(intern->inner.iterator);
ff (data)

IVAL_DEEF(data);
IVAL_DEEF(data);
IVAL_DEEF(data);
IVAL_DEEF(data);
IVAL_OPE(return_value, data);
IVAL_OPE(re
seus:
1204: SPL_FETCH_AND_CHECK_DUAL_TT(intern, getThis());
1205: intern->tnner.iterator>-runcs->move_forward(intern->inner.iterator);
1206: | /* | // * | // * |
1207:
 James 1, 2001. (If prote void Infinitellerator::next() 2002. (If prote void Infinitellerator::next() 2003. (* (If prote void Infinitellerator::next() (Internally the current data will be fetched if valid()) *, 2122: SPL_METHOD(Infinitellerator, next)
                                if (zend_parse_parameters_none() == FAILURE) {
   return;
                                    SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
 3249: | 3250: |
3251: | /* | | */
3252:
 if (zend_parse_parameters_none() == FAILURE) {
   return;
     3268: /* ((( proto false EmptyIterator::valid()
3269: Return false */
3270: SPL_METHOD(EmptyIterator, valid)
       3271: (
3272: if (zend_parse_parameters_none() == FAILURE) (
3273: return:
   3277: 3278: /* ([[ proto void EmptyIterator::key() 3278: /* ([[ proto void EmptyIterator::key() 3279: Throws exception BadMethodCallExcept 3280: SPL_METHOD(EmptyIterator, key) 3281: [ [ rend_parse_parameters_none() -- F.
                                    if (zend_parse_parameters_none() == FAILURE) {
   return;
 ...., (ii) proto void EmptyTerator:current()
3289: Throws exception EndMethoddallException */
3290: SPL_METHOCO[EmptyTerator, current)
3291: [
3290: If (rend_parse_parameters_none() == FAILURE)
3290: return;
3290: 7
     return;

2391: return;

2394: )

2395: read_throw_exception(spl_ce_BadMethodCallException, "Accessing the value of an EmptyIterator", 0);

2396: ) /* || /* || /* |

2397: || /* || /* || /* || /* |

2397: /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || /* || 
                     //:
8: /* ([[ proto void EmptyIterator::next()
9: Does nothing */
0: SPL_METROD(EmptyIterator, next)
   3301: $PL_METHOD(E
3301: {
3302: if (zend_p,
3303: return;
3304: }
3305: } /* } // 3306:
                                    if (zend_parse_parameters_none() == FAILURE) (
   return;
 3306: 3307: static comet rand_function_entry spl_funca_DeptyTterator[] = (
3307: static comet rand_function_entry spl_funca_DeptyTterator[] = (
3308: SPL_MCEORPYTTERATOR, rewind,
3309: SPL_MCEORPYTTERATOR, 101d,
3309: SPL_MCEORPYTTERATOR, 101d,
3309: SPL_MCEORPYTTERATOR, corrent,
3311: SPL_MCEORPYTTERATOR, corrent,
347ginfo_recursive_tt_void, IDMO_ACC_PUBLICO,
3311: SPL_MCEORPYTERATOR, beat,
3312: SPL_MCEORPYTERATOR, beat,
3313: SPL_MCEORPYTERATOR, beat,
3314: SPL_MCEORPYTERATOR, beat,
3316: SPL_MCEORPYTERATOR, beat,
3317: SPL_MCEORPYTERATOR, beat,
3317: SPL_MCEORPYTERATOR, beat,
3318: SPL_MCEORPYTE
                                  [f (12_1SUNDEF(intern-vinner.sch)ect)) {
    rval_ptt_dtor(sintern-vinner.sch)ect);
    rval_muser(sintern-vinner.sch)ect);
    intern-vinner.ce = NULL;
    f (intern-vinner.sch)ect);
    rand_iterator_dtor(intern-vinner.iterator);
    intern-vinner.turator = NULL;
    intern-vinner.turator = NULL;

                                  ] if (intern->u.append.iterator->funcs->valid(intern->u.append.iterator) == SUCCESS) {    zval *it;
                                            it = infram-va.append.iterator->funca->pet_current_data(intern-va.append.iterator);
XML_ODY(intern->inner.cab)ect, it);
intern->inner.ce = 2_0BXE_P(tt);
intern->inner.ce = 2_0BXE_P(tt);
apl_dail_t_revind(intern);
apl_dail_t_revind(intern);
apl_dail_t_revind(intern);
                                    return SUCCESS;
) else (
return FAILURE:
                                        while (spl_dual_it_valid(intern) != SUCCESS) {
  intern->u.append.iterator->funcs->move_forward(intern->u.append.iterator);
  if (spl_append_it_next_iterator(intern) != SUCCESS) {
    return;
    return;
 if (spl_dual_it_valid(intern) == SUCCESS) (
    spl_dual_it_next(intern, 1);
     3357: spi_due___...
3358: }
3359: spi_append_it_fetch(intern);
3360: } /* } // */
```

```
ext/spl/spl_iterators.c
 3363: Create an AppendIterator */
3364: SPL_METHOD(AppendIterator, __construct)
 .....usr, __construct)

3366: spl_dual_it_construct(INTERNAL_FUNCTION_PARAM_PASST)
3367: ] /* )]] */
3368:
3369: /* [[[ proto void AppendIterator::append(Iterator it)
3370: Append an iterator */
3371: SPL_METHOD(AppendIterator, append)
               spl_dual_it_object *intern;
zval *it;
                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                if (zend_parse_parameters_ex(ZEND_PARSE_PARAMS_QUIET, ZEND_NUM_ARGS(), "O", &it, zend_ce_iterator) -- FAILURE) {
                 | If (intern-vu.append.iterator->runca->valid(intern-vu.append.iterator) == SUCCESS is apl_dual_it_valid(intern) != SUCCESS) {
    spl_array_iterator_append(intern-vu.append.azrayit, tt);
    intern-vu.append.iterator-incom->nove_forward(intern-vu.append.iterator);

                 }else(
spl_array_iterator_append(sintern->u.append.zarrayit, it);
                if (!intern->inner.iterator || spl_dual_it_valid(intern) != SUCCESS) {
   if (!intern->u.append.iterator->funcs->valid(intern->u.append.iterator) != SUCCESS) {
    intern->u.append.iterator->funcs->rewind(intern->u.append.iterator);
                    do (
    spl_append_it_next_iterator(intern);
} while (2_OBJ(intern-vinner.zobject) != 2_OBJ_P(it));
spl_append_it_fetch(intern);
                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
               spl_dual_it_fetch(intern, 1);
if (2_TYPE(intern->current.data) != IS_UNDEF) {
  zval *value = &intern->current.data;
                  ZVAL_DEREF(value);
ZVAL_COPY(return_value, value);
                 ) else {
RETURN_NULL();
.4441/

14221/* ((( proc void Appenditerator::rewind()

3433: Newind to the first iterator and rewind the first iterator, too */

3424: STM_METHOO(Appenditerator, rewind)

3435: (
                 spl_dual_it_object *intern;
                if (zend_parse_parameters_none() == FAILURE) (
   return;
                 SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
                intern->u.append.iterator->funcs->rewind(intern->u.append.iterator);
if (spl_append_it_next_iterator(intern) == SUCCESS) (
    spl_append_it_fatch(intern);
3439:
3440: /* ([[ proto bool AppendIterator::valid
3441: Check if the current state is valid
3442: SPL_METHOD(AppendIterator, valid)
3443: [
                spl_dual_it_object *intern;
                if (zend_parse_parameters_none() == FAILURE) (
              SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
               RETURN_BOOL(Z_TYPE(intern->current.data) != IS_UNDEF);
             Forward to next element */
SPL_METHOD(AppendIterator, next)
                 spl_dual_it_object *intern;
               if (zend_parse_parameters_none() == FAILURE) (
   return;
ave3!
3470: /* ([[ proto int AppendIterator::getIteratorIndex()
3471: Cot index of iterator */
3472: SPL_METHOD(AppendIterator, getIteratorIndex)
3473: {
                spl_dual_it_object *intern;
               if (zend_parse_parameters_none() == FAILURE) (
                SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
               APPENDIT_CHECK_CTOR(intern);

spl_array_iterator_key(sintern->u.append.zarrayit, return_value);

1 /* 111 */
                spl_dual_it_object *intern;
zval *value;
                if (zend_parse_parameters_none() == FAILURE) (
               SPL_FETCH_AND_CHECK_DUAL_IT(intern, getThis());
             value = sintern->u.append.zarrayit;
ZVAL_DEREF(value);
ZVAL_COPY(return_value, value);
} /* jjj */
             ZEND_BEGIN_ARG_INFO(arginfo_append_it_append, 0)
ZEND_ARG_OBJ_INFO(0, iterator, Iterator, 0)
ZEND_END_ARG_INFO();
            static comat rend_function_entry spl_funcs_Appenditerator[] = {
    static comat rend_function_entry spl_funcs_Appenditerator.] = {
        sepinde_penditerator._construct.
        sepinde_penditerator._sepind.
        sepinde_penditerator._sepind.
        sepinde_penditerator._sepind.
        sepinde_penditerator._sepind.
        sepinde_penditerator._sepind.
        sepinde_penditerator._sepind.
        sepinde_penditerator._sepind.
        sepinde_penditerator._sepind._sepinde_penditerator._sepind._sepinde_penditerator._sepind._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_penditerator._sepinde_
.s21:
332: PMPAPI int spliterator_apply(zval 'cb), spliterator_apply_func_t apply_func, void 'puser|
332: PMPAPI int spliterator_apply(zval 'cb), spliterator_apply_func_t apply_func, void 'puser|
332: Sand_object_iterator 'iter;
                 zend_object_iterator *iter;
zend_class_entry *ce = Z_OBJCE_P(obj);
                 iter = ce->get_iterator(ce, obj, 0);
                 while (iter->funcs->valid(iter) == SUCCESS) {
  if (EG(exception)) {
                     }
if (apply_func(iter, puser) -- ZEND_HASH_APPLY_STOP || EG(exception)) {
  goto done;
```

```
goto done;
3551:
3552:
3553:
return EG(exception) ? FAILURE : SUCCESS;
                         static int spl_iterator_to_array_apply(zend_object_iterator *iter, void *puser) /* ((( */
                              zval *data, *return_value = (zval*)puser;
 3566: data = iter>funcs->get_current_data(iter);
3568: if (EC(exception)) {
3569: return ZEND_HASH_APPLY_STOP;
                                if (iter->funcs->get_current_key) {
   zval key;
   iter->funcs->get_current_key(iter, &key);
   if (EG(exception)) {
      return ZEND_HASH_APPLY_STOP;
   }
}
                              ]
array_set_rval_key(Z_ARRVAL_P(return_value), &key, data);
rval_ptr_dcor(&key);
} else (
Z_TMY_ADORET_P(data);
add_next_index_rval(return_value, data);
                                  return ZEND_HASH_APPLY_KEEP;
   3590: static int spl_iterator_to_values_apply(zend_object_iterator *iter, void *puser) /* {{{ "/ 3591: {
                              zval *data, *return_value = (zval*)puser;
                              data = iter->funcs->get_current_data(iter);
if (EC(exception)) {
   return ZEND_HASH_APPLY_STOP;
     3611: zval *obj;
3612: zend_bool use_keys = 1;
   Jelii If (zeod_paraeters(EEND_NUM_ARGS(), "O|b", sobj, zeod_ce_traversable, suse_keys) -- FAILURE) (
3515: RITURE_FALES)
 3819: if (apl_iterator_apply(obj, use_keys ? spl_iterator_to_array_apply : spl_iterator_to_values_apply, (wodd*)return_value) != SUX 3820: if (apl_iterator_to_values_apply, (wodd*)return_value) != SUX 3821: aval_ptr_dcor(return_value);
 3626: static int spl_iterator_count_apply(zend_object_iterator *iter, void *puser) /* {{{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*}} {{{}^*
if (zend_parse_parameters(ZEND_NUM_ARGS(), "O", sobj, zend_ce_traversable) == FAILURE) {
    RETURN_FALSE;
J641: 3644: if (spl.iterator_apply(ob), spl_iterator_count_apply, (weld*) count) -- SUCCESS) (3645: BETURN_LOWG(count); 3646: 3647: ] 3647: ] 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* ]] /* 3648: /* ]] /* 3648: /* ]] /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* 3648: /* ]] /* ]] /* 3648: /* ]] /* ]] /* 3648: /* ]] /* ]] /* 3648: /* ]] /* ]] /* 3648: /* ]] /* ]] /* ]] /* 3648: /* ]] /* ]] /* ]] /* ]] /* ]] /* 3648: /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]] /* ]]
 3649: ypadef struct {
3651: ypadef struct {
3651: xval *obj;
3652: xval *args;
3653: send_long count;
3654: zend_fcall_info fci;
3655: xend_fcall_info_cache fco;
3656: pal_iterator_sphy_infoy
3656: pal_iterator_sphy_infoy
3656: pal_iterator_func_ap
                           static int spl_iterator_func_apply(zend_object_iterator *iter, void *puser) /* ([[ *.
                              tval retval;
spi_iterator_apply_info *apply_info = (spi_iterator_apply_info*)p
int result;
                           apply_info->count++;

rend_coll_info_call(apply_info->foi, sapply_info->foo, sretval, NULL);

if (%_TYPE(rent)! = 18_MRREP) {

result = send_is_true (restval) ? ZEND_HASH_APPLY_XEEP : ZEND_HASH_APPLY_STOP;

rell_tr_foo(setval);
}

alse {

result = ZEND_HASH_APPLY_STOP;

result = ZEND_HASH_APPLY_STOP;
                              }
return result;
   1974: (')|| ''
1975:
1976: ('()| proto int iterator_apply(Traversable it, mixed function [, mixed params))
1976: ('()| proto int iterator_apply)
1977: Culls a function for every element in an iterator '/
1978: PR_TUNKTION(Iterator_apply)
1979: (
                              apply_info.args = NULL;

if (rend_parse_parameters(IEND_NUM_ARGS(), "Of|a|", sapply_info.obj, zend_co_traversable, sapply_info.fci, sapply_info.fcc, sapply_info.args) == FAII
                              apply_info.count = 0;
zend_fcall_info_args(apply_info.fci, apply_info.args);
if (spl_iterator_apply(apply_info.cb), upl_iterator_func_apply, (weid*)sapply_info) == SUCCESS) {
RETVAL_LONG(apply_info.count);
                              ) else (
RETVAL_FALSE;
                                }
zend_fcall_info_args(sapply_info.fci, NULL);
                           PHP_MINIT_FUNCTION(spl_iterators)
                           REGISTER_SPL_INTERFACE (RecursiveIterator);
REGISTER_SPL_ITERATOR (RecursiveIterator);
                              memory(sspl_handlers_dual_it, rend_get_std_bbjet_handlers(), sisse(ix
spl_handlers_dual_it.offset - NtOffsetOf(spl_dual_it_objet, std))
spl_handlers_dual_it.ege_method = spl_dual_it_get_method;
//spl_handlers_dual_it.ege_method = spl_dual_it_cal_method;
//spl_handlers_dual_it.cisse_db;
spl_handlers_dual_it.cisse_db;
spl_handlers_dual_it.cisse_db;
spl_handlers_dual_it.cisse_db;
spl_handlers_dual_it.cisse_db;
spl_handlers_db;
spl
                                spl_ce_RecursiveIteratorIterator->get_iterator = spl_recursive_it_get_iterator;
spl_ce_RecursiveIteratorIterator_funcs.funcs = &spl_recursive_it_iterator_funcs;
                                RECISTER_SP_CLASS_CONST_LONG (RecursiveIteratoriterator, "LEAVES_ORLY", RIT_LEAVES_CRLY);
REGISTER_SP_CLASS_CONST_LONG (RecursiveIteratoriterator, "ELEF_FIRST", RIT_SELF_FIRST);
REGISTER_SP_CLASS_CONST_LONG (RecursiveIteratoriterator), "CLATE_GET_CRLID", RIT_CATCL_CET_CRLID);
REGISTER_SP_CLASS_CONST_LONG (RecursiveIteratoriterator, "CLATE_GET_CRLID", RIT_CATCL_CET_CRLID);
                              REGISTER_SPL_INTERFACE (OuterIterator);
REGISTER_SPL_ITERATOR(OuterIterator);
```

```
REGISTER_SPL_STD_CLASS_EX(Iteratoriterator, spl_dual_st_new, spl_funcs_Iteratoriterator);
REGISTER_SPL_TERATOR(Iteratoriterator);
REGISTER_SPL_DELEMENT(Iteratoriterator);
            REGISTER_SPL_SUB_CLASS_EX(RecursiveFilterIterator, FilterIterator, spl_dual_it_new, spl_funcs_RecursiveFilterIterator);
REGISTER_SPL_IMPLEMENTS(RecursiveFilterIterator, RecursiveIterator);
            REGISTER_SPL_SUB_CLASS_EX(RecursiveCallbackFilterIterator, CallbackFilterIterator, spl_dual_it_new, spl_funcs_RecursiveCallbackFilterIterator);
REGISTER_SPL_IMMLEMENTS(RecursiveCallbackFilterIterator, RecursiveIterator);
            REGISTER\_SPL\_SUB\_CLASS\_EX (Recursive Caching Iterator, Caching Iterator, spl\_dual\_it\_new, spl\_funcs\_Recursive Caching Iterator); \\ REGISTER\_SPL\_IMPLEMENTS (Recursive Caching Iterator, Recursive Iterator); \\
```

```
ext/spl/spl_dllist.h
PMP Vieston 7

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       33: #endif /* SPL_DLLIST_B *
34:
35: /*
36: * Local Variables:
37: * c-basic-offset: 4
38: * tab-width: 4
39: * End:
40: * vims00: fdm-marker
41: * vim: noet sw=4 ts=4
42: */
```

```
ext/spl/php_spl.c
                | Copyright (c) 1997-2018 The PHP Group
        /* SIdS */
static zend_class_entry * spl_find_ce_by_name(zend_string *name, zend_bool autoload)
          zend_class_entry *ce;
          if (!autoload) (
  zend_string *lc_name = zend_string_tolower(name);
               ce = zend_hash_find_ptr(EG(class_table), lc_name);
zend_string_free(lc_name);
                else (
ce = zend_lookup_class(name);
        /* ([[ proto array class_parents(object instance [, bool autoload = true])
Return an array containing the names of all parent classes */
PMP_FUNCTION(class_parents)
          zval *obj;
zend_class_entry *parent_class, *ce;
zend_bool autoload = 1;
           if (zend_parse_parameters(ZEND_NUM_ARGS(), "z|b", 6obj, 6autoload) == FAILURE) {
    RETURN_FALSE;
          if (Z_TYPE_P(obj) == IS_STRING) {
   if (NULL == (ce = spl_find_ce_by_name(Z_STR_P(obj), autoload))) {
     RETURN_PALSE;
          array_init(return_value);
parent_class = ce->parent;
while (parent_class) {
spl_add_class_name(return_value, parent_class, 0, 0);
parent_class = parent_class->parent;
          /* [[[ proto array class_implements(mixed what [, bool autoload ])
Return all classes and interfaces implemented by SPL */
PHP_FUNCTION(class_implements)
          if (zend_parse_parameters(ZEND_NUM_ARGS(), "z|b", &obj, &autoload) -- FAILURE) {
    RETURN FALSE:
          if (Z_TYPE_P(obj) == IS_STRING) {
  if (NULL == (ce = spl_find_ce_by_name(Z_STR_P(obj), autoload))) {
    RSTURN_FALSE;
           array_init(return_value);
spl_add_interfaces(return_value, ce, 1, ZEND_ACC_INTERFACE);
        /* ((( proto array class_uses(mixed what [, bool autoload ])
Return all traits used by a class. */
PHP_FUNCTION(class_uses)
           if (zend_parse_parameters(ZEND_NUM_ARGS(), "z|b", sobj, sautoload) == FAILURE) {
    RETURN_FALSE;
            ]
if (Z_TYPE_P(obj) != IS_OBJECT && Z_TYPE_P(obj) != IS_STRING) {
    php_error_docref(NULL, E_NARNING, "object or string expected");
    RETURE_FALSE;
          if (Z_TYPE_P(obj) == IS_STRING) {
  if (NULL == (ce = spl_find_ce_by_name(Z_STR_P(obj), autoload))) {
    RETURN_FALSE;
          array_init(return_value);
spl_add_traits(return_value, ce, 1, ZEND_ACC_TRAIT);
        #define SPL_ADD_CLASS(class_name, z_list, sub, allow, ce_flags) \
spl_add_classes(spl_ce_ ## class_name, z_list, sub, allow, ce_flags)
       **Modine SPLIST_CLASSS(s_list, sub, allow, ce_flags) \
SPLAND_CLASS (dependificator, z_list, sub, allow, ce_flags) \
SPLAND_CLASS (dependificator, z_list, sub, allow, ce_flags); \
SPLAND_CLASS (darray(chect, z_list, sub, allow, ce_flags); \
SPLAND_CLASS (darray(chect, z_list, sub, allow, ce_flags); \
SPLAND_CLASS (darbunct) (canlibracytion, z_list, sub, allow, ce_flags); \
SPLAND_CLASS (darbunct) (callibracytion, z_list, sub, allow, ce_flags); \
SPLAND_CLASS (darbunct) (callibracyticator, z_list, sub, allow, ce_flags); \
SPLAND_CLASS (darbunct) (callibracyticator, z_list, sub, allow, ce_flags); \
```

```
SPL_MOC_CLASS(Filesystemiterator, z.list, sub, allow, ce_fisps);

SPL_MOC_LASS(Filesystemiterator, z.list, sub, allow, ce_fisps);

SPL_MOC_LASS(Filesystemiterator, z.list, sub, allow, ce_fisps);

SPL_MOC_LASS(firiterator, z.list, sub, allow, ce_fisps);

SPL_MOC_LASS(firmiterator, z.list, sub, allow, ce_fisps);

SPL_MOC_LASS(forestreator, z.list, sub, allow, ce_fisps);

SPL_MOC_LASS(forestrea
     189:
190:
191:
| 2001 BPL_BOC_LABS (Descrive)Caching(certain, z_ilat, sub, allow, co_flags) \ | 2001 BPL_BOC_LABS (Descrive)Caching(certain, z_ilat, sub, allow, co_flags) \ | 2101 BPL_BOC_LABS (Descrive)Caching (certain)Caching (certain)Cachi
                                                 class_file_len = (int)spprintf(&class_file, 0, "%s%.*s", ZSTR_VAL(lc_name), ext_len, ext);
                                           #1f DEFAULT_SLASH != '\\
                                                       char *ptr = class_file;
char *end = ptr + class_file_len;
                                                            while ((ptr = memchr(ptr, '\\', (end - ptr))) != NULL) (
*ptr = DEFAULT_SLASH;
                                                    if (ret == SUCCESS) {
    zend_string *opened_path;
    if (fitle_handle.opened_path) {
      file_handle.opened_path = zend_string_init(class_file, class_file_len, 0);
    }
}
                                                               ]
opened_path = zend_string_copy(file_handle.opened_path);
ZVA_UNIL(schummy);
III.(schummy);
III
                                                                                      destroy_op_array(new_op_array);
efree(new_op_array);
if (!EG(exception)) {
   zval_ptr_dtor(&result);
}
                                              /* [[[ proto void spl_autoload(string class_name [, string file_extens: Default implementation for __autoload() */
PRB_FUNCTION(spl_autoload)
                                                    int pos_len, posl_len;
char 'pos, 'posl;
zend_string 'class_name, 'lc_name, 'file_exts - SPL_G(autoload_extensions);
                                                       if (zend_parse_parameters(ZEND_NUM_ARGS(), "S|S", &class_name, &file_exts) == FAILURE) {
    RETURN_FALSE;
                                                 If [file_set = Will ] /* section detentions is not initialized, set to defaults 'pos = **RLESHIT_FILE_FIRESHINGS) - 1;
pos = **INT_VAL(file_sets);
pos.len = sissef(SPL_DEFAULT_FILE_ENTISSIONS) - 1;
pos = SITE_VAL(file_sets);
pos.len = file_STR_LEN(file_sets);
                                                    'C_name = rend_string_tolower(class_n
while (pos &s *pos &s !EE(exception))
posl = strchr(pos, ',');
if (posl) {
    posl_len = (int)(posl - pos);
    } else {
        posl_len = pos_len;
                                                               )
if (spl_autoload(class_name, lc_name, pos, posl_len)) {
    break; /* loaded */
                                                                     pos = pos1 ? pos1 + 1 : NULL;
pos_len = pos1? pos_len - pos1_len - 1 : 0;
        336: ]
337: zend_string_free(lc_name);
338: ] /* ]]] */
339: 340: /* ([[ prot string spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string_spi_autole_string
                                           /* ((( proto string spl_autoload_extensions([string file_extensions])
Register and return default file extensions for spl_autoload */
PRP_FUNCTION(spl_autoload_extensions)
                                                         zend_string *file_exts = NULL;
                                                    if (zend_parse_parameters(ZEND_NUM_ARGS(), "|S", sfile_exts) == FAILURE) {
    return;
                                                                     ]
SPL_G(autoload_extensions) = zend_string_copy(file_exts);
                                                    {
    autoload_func_info *alfi = (autoload_func_info*)Z_PTR_P(element);
    if (!Z_ISUNDEP(alfi->obj)) {
        zval_ptr_dtor(&alfi->obj);
    }
```

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```
ZSTR_VAL(lc_name)[ZSTR_LEN(lc_name)] = '\0';
] else {
    ZVAL_UNDEF(salfi.closure);
                                                                                                                                                                                                                                                                                                                                                                                                                        efree(alfi);
385: /* ((( proto void spl_sutoload_call(string class_name))
389: Try all registerd autoload function to load the requested class */
390: PB_TONCTION(spl_sutoload_call))
391: (
                                                                                                                                                                                                                                                                                                                                                                                                                                                if (SPL_G(autoload_functions) && ze
  if (!Z_ISUNDEF(alfi.closure)) {
    Z_DELREF_P(&alfi.closure);
                 if (zond_parse_parameters(ZEND_NUM_ARGS(), "z", &class_name) == FAILURE || Z_TYPE_P(class_name) != IS_STRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ) else (
ZVAL_UNDEF(&alfi.obj);
                      SPL_G(autoload_running) = 1;
lc_name = zend_string_tolower(Z_STR_P(class_name));
                      ZVAL_UNDEF(&fci.function_name); /* Unu
                     if (!Z_ISUNDEF(alfi.closure)) {
   Z_DELREF(alfi.closure);
                                 lese {
  fci.object = Z_OBJ(alfi->obj);
  fcic.object = Z_OBJ(alfi->obj);
  fcic.called_scope = Z_OBJCE(alfi->obj);
                          if (EG(exception)) {
  break;
                         if (pos + 1 == SPL_G(autoload_functions) -> nNumUsed ||
   zend_hash_exists(EG(class_table), lc_name)) {
   break;

}
zend_hash_move_forward_ex(SPL_G(autoload_functions), spos);
                     zend_string_release(lc_name);
SPL_G(autoload_running) = 1_autoload_running;
                      /* do not use or overwrite &EG(autoload_func) here */
zend_call_method_with_l_params(NULL, NULL, NULL, "spl_autoload", NULL, class_name);
             #define HT_MOVE_TAIL_TO_HEAD(ht)
                                                                                                                                                                                                                                                                                                                                                                                                                                        zend_string "func_name = NULL;
chaw "error = NULL;
zend_string "ic_name;
zval "collable;
int success = FAILURE;
zend_function "spl_func_ptr;
zend_chect "obl_ptr;
zend_chect "obl_ptr;
               /* ((( proto bool spl_autoload_register([mixed autoload_fu
Register given function as _autoload() implementation */
PHP_FUNCTION(spl_autoload_register)
               end_string *func_name;
char *orror = NULL;
rend_string *lc_name;
rval *collable = NULL;
rend_bool do_throw = 1;
rend_bool prepend = 0;
rend_function *spl_func_ptr
autoload_func_info alf;
rend_object *obj_tr;
rend_foalt_info_cache fc;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (func_name) {
   zend_string_release(func_n
                                                                                                                                                                                                                                                                                                                                                                                                                                               RETURN_FALSE;
                __ex(spl_ce_LogicException, 0, "Passed array does not specify %s %smethod (%s)", alfi.func_ptr ? "a callable" : "an ex
                            ]
son_string_release(func_name);
string_release(func_name);
string_release
string
                                                                                                                                                                                                                                                                                                                                                                                                                                                      EG(autoload_lum., . ... .
} else {
zend_hash_clean(SPL_G(autoload_functions));
                                                                                                                                                                                                                                                                                                                                                                                                                                                success = SUCCESS;
} else {
                                 }
zend_string_release(func_name);
RETURN_FALSE;
else {
   if (do_throw) {
      zend_throw_exception_ex(spl_cs
                                                                          eption_ex(spl_ce_LogicException, 0, "Illegal value passed (%s)", error);
                                if (error) {
  efree(error);
                                 zend_string_release(func_name);
RETURN_FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                              if (EG(autoload_func) == spl_func_ptr) {
   success = SUCCESS;
   EG(autoload_func) = NULL;
}
                          ]
also if (fcc.function_handler>type == IRNO_INTERNAL_FUNCTION is
fcc.function_handler>internal_function.handler == rif_spl_autoload_call) {
    f(dc_throw] {
        f(dc_throw] {
            rend_throw_exception_ex(spl_ce_LogicException_0, 0, "Function spl_autoload_call() cannot be register
}
                      alfi.ce = fcc.calling_scope;
alfi.func_ptr = fcc.function_handle
obj_ptr = fcc.object;
if (error) {
    efree(error);
                                                                                                                                                                                                                                                                                                                                                                                                                                          zend_function *fptr;
autoload_func_info *alfi;
                         if (Z_TYPE_P(zcallable) == IS_OBJECT)
ZVAL_COPY(salfi.closure, zcallable);
                            lc_name = zend_string_alloc(25TR_LEN(func_name) + sizeof(uint32_t), 0);
zend_str_tolower_copy(25TR_VAL(c_name), 25TR_VAL(func_name), 25TR_VAL(func_name), 25TR_LEN(func_name));
memopy(25TR_VAL(ic_name) + 25TR_LEN(func_name), #z.OSB_JANDILE_P(recallable), sizeof(uint32_t));
```

```
ACCOUNT OF THE PROPERTY OF THE
                  if (object is faif, func_ptr>common.fn_flags & IEND_ACC_STATIC)) {

/* add object id to the hash to ensure uniqueness, for more reference look at boy $40091 */

[c_mase = rand_string_actend[c_mase, ESTR_EBI(c_mase) = sizeof(uint32_t), 0);

smemop(IESTR_UAL(c_mase) = 2ETR_EBI((c_mase) = sizeof(uint32_t), sobject->handle, sizeof(uint32_t));

INVAL_SOB(saif.co), object);

__AUDOMSF[saif.nob];
                  if (!SPL_G(autoload_functions));
ALLOC_RASHTRABLE(SPL_G(autoload_functions));
zend_hash_init(sPl_G(autoload_functions)), NULL, autoload_func_info_dtor, 0);
                         if (EG(autoload_func) -- spl_func_ptr) ( /* registered already, so we insert that first */
   autoload_func_info spl_aift;
                           spl_affi.func.ptr = spl_func.ptr;
ZVAL_UBDEF(spl_affi.cb));
ZVAL_UBDEF(spl_affi.cb));
spl_affi.ce = NULt;
spl_affi.ce = NULt;
spl_affi.gt = N
                         , f (rend_hash_add_mem(SFL_C(autoload_functions), lc_name, talfi, sizeof(autoload_func_info)) == NULL) {
    if (obj_ter t& !(alfi.func_ptr->common.fn_flags & ZEND_ACC_STATIC)) {
        Z_DELEME(alfi.obj);
    }
                              }
if (UNEXPECTED(alfi.func_ptr>-common.fn_flags & ZEND_ACC_CALL_VIA_TRAMFOLINE)) {
    zend_string_release(alfi.func_ptr>-common.function_name);
    zend_free_trampoline(alfi.func_ptr);
                  if (prepend & SPL_G(autoload_functions) -> nNumOfElements > 1) {
    /* Move the newly created element to the head of the hashtable */
HT_MOVE_TAIL_TO_HEAD(SPL_G(autoload_functions));
    if (SE_Ciuminical_funct incs) |
SC(seminosed_func) = seed_hash_str_find_ptr(SC(function_table), "spl_autoload_call", sizeof("spl_autoload_call") = 1);
) alse |
SC(seminosed_func) = zeed_hash_str_find_ptr(SC(function_table), "spl_autoload", sizeof("spl_autoload") = 1);
    if (SPL_G(autoload_functions)) {
   if (ZSTR_LEN(lc_name) -- sizeof("spl_autoload_call") - 1 && !strcmp(ZSTR_VAL(lc_name), "spl_autoload_call")) {
                              else {
    /* remove specific */
    success = send_hash_dei[SFL_G(autoload_functions), ic_hame);

ff (success = ScoCDSSS sit ob_ptr) {
    ic_hame = send_string_schedid(ic_hame, SSTR_LES((ic_hame) + sizeof(uint32_t), 0);

    succept(SSTR_VAL(ic_hame) = SSTR_LES((ic_hame) - sizeof(uint32_t), dob_ptr->handle, sizeof(uint32_t));

    ISSTR_VAL(ic_hame) = SSTR_LES((ic_hame) - "(")";

    success = send_hamb_dei[SST_LES((ic_hame)) - "(")";

    success = send_hamb_dei[SST_LES((ic_hamb) - "(")");

    ) | else if (ZSTR_LEN(ic_name) -= sizeof("spl_sutoload")-1 66 !strcmp(ZSTR_VAL(ic_name), "spl_sutoload")) {
    /* register single spl_sutoload() */
    spl_tunc_ptr - zend_hash_str_find_ptr_(Eof(unction_table), "spl_sutoload", sizeof("spl_sutoload") - 1);
}
  if (!EG(autoload_func)) {
   if ((fptr = send_habt_str_find_ptr(EG(function_table), ZEND_AUTOLOAD_FUNC_HAME, siseof(ZEND_AUTOLOAD_FUNC_HAME) - 1))) {
        array_inft (seturn_value);
        add_next_index_stringirreturn_value, ZEND_AUTOLOAD_FUNC_HAME, siseof(ZEND_AUTOLOAD_FUNC_HAME)-1);
}
```

ext/spl/php\_spl.c

```
SETURE_FALSE;

754: ]

757: [Controlled_func) = fptr) {

758: fr (Eduationd_func) = fptr) {

759: fr (Eduationd_func) {

7
                                    fptr = zend_hash_str_find_ptr(EG(function_table), "spl_autoload_call", sizeof("spl_autoload_call") - 1);
                                                               if (strncmp(ZSTR_VAL(alfi->func_ptr->common.function_name), "_lambda_func", sizeof("_lambda_func") - 1)) {
   add_next_index_str(return_value, zend_string_copy(alfi->func_ptr->common.function_name));
                                  zval *obj;
                               if (zend_parse_parameters(ZEND_NUM_ARGS(), "o", &obj) == FAILURE) (
                           RETURN_NEW_STR(php_spl_object_hash(obj));
                                  zval *ob1:
                                  RETURN_LONG((zend_long)Z_OBJ_HANDLE_P(obj));
                                if (ISPL_G(hash_mask_init)) {
    SPL_G(hash_mask_handle) = (intptr_t) (php_mt_rand() >> 1);
    SPL_G(hash_mask_handlers) = (intptr_t) (php_mt_rand() >> 1);
    SPL_G(hash_mask_init) = 1;
                                  hash_handle = SPL_G(hash_mask_handle)^(intptr_t)Z_OBJ_HANDLE_P(obj);
hash_handlers = SPL_G(hash_mask_handlers);
                                return strpprintf(32, "%016xx%016xx", hash_handle, hash_handlers);
                             int spl build class list string(zval *entry, char **list) /* ((( */
                                char *res;
                             spprintf(srea, 0, "%s, %s", *list, Z_STRVAL_P(entry));
efree(*list);
*list = rea;
return ZEND_BASH_APPLY_KEEP;
} /* | j /* j /* j
                             PHP MINFO FUNCTION (spl)
                                    php_info_print_table_start();
php_info_print_table_header(2, "SPL support", "enabled");
                                    array_init(slist);
SPL_LIST_CLASSES(slist, 0, 1, ZEND_ACC_INTERFACE)
                                    strg = estrdup("");
zend_hash_apply_with_argument(Z_ARRVAL_P(slist), (apply_func_arg_t)spl_build_class_list_string, sstrg);
avail_des_(ilse).
                                    zval_dtor(&list);
php_info_print_table_row(2, "Interfaces", strg + 2);
efree(strq);
                                    array_init(slist);
SPL_LIST_CLASSES(slist, 0, -1, ZEND_ACC_INTERFACE)
                                    or_uss_indextels(size, v, "1, sam_us_internal)
stdg = ustrop(", "1, sam_us_internal)
stdg = ustrop(", ustr_argument(I_ASEVAL")(size), (apply_func_arg_t)spl_build_class_list_string, satrg);
read_bami_apply_vitl_argument(I_ASEVAL")(size), (apply_func_arg_t)spl_build_class_list_string, satrg);
php_into_prior_table_row(2, "classes", strg + 2);
strong = ustrop(", ustro
                                  php_info_print_table_end();
       882: IEMD_MECIN_AMO_INVO(arginfo_iterator, 0)
884: IEMD_MECIN_AMO_INVO(arginfo_iterator, Traversable, 0)
884: IEMD_MEC_MECIN_INVO(), iterator, Traversable, 0)
885: IEMD_MEC_MECIN_INVO(), iterator, Traversable, 0)
886: IEMD_MEC_MECIN_INVO(), iterator, Traversable, 0)
888: IEMD_MEC_MECIN_INVO(), iterator, Traversable, 0)
888: IEMD_MECIN_INVO(), iterator, Traversable, 0)
889: IEMD_MECIN_INVO(), iterator, I
         892:
893: ZEND_BEGIN_ARG_INFO_EX(arginfo_class_parents, 0, 0, 1)
         894: ZEND_ARG_INFO(0, instance)
895: ZEND_ARG_INFO(0, autoload)
896: ZEND_END_ARG_INFO()
897:
         897: S88: END.RECIN_ANG_INFO_EX(arginfo_class_implements, 0, 0, 1)
899: ZEND_ANG_INFO(0, what)
901: ZEND_ANG_INFO(0, autoload)
901: ZEND_ANG_INFO(0, autoload)
         950: EMD_NO_MG_INTO()
951: EMD_NO_MG_INTO()
951: EMD_NO_MG_INTO()
951: EMD_NO_MG_INTO(), what)
955: EMD_NO_ING_INTO(), autoload)
956: EMD_NO_MG_INTO()
                             ZEND_BEGIN_ARG_INFO(arginfo_spl_autoload_functions, 0)
ZEND_END_ARG_INFO()
              14:

15: END_BEGIN_ARG_INFO_EX(arginfo_spl_autoload, 0, 0, 1)

16: REND_ARG_INFO(0, class_name)

17: REND_ARG_INFO(0, file_extensions)

18: ZEND_END_ARG_INFO(1)
            119: 2200 BEGIN_ARG_INFO_EX(arginfo_spl_autoload_extensions, 0, 0, 0)
121: ZEND_ARC_INFO(0, file_extensions)
122: ZEND_ARC_INFO()
          723:

924: ZEND_BEGIN_ARG_INFO_EX(arginfo_spl_autoload_call, 0, 0, 1)

925: ZEND_ARG_INFO(0, class_name)

926: ZEND_END_ARG_INFO()
            32: ZEND_BEGIN_ARG_INFO_EX(arginfo_spl_autoload_register, 0, 0, 0)
329: ZEND_ARG_INFO(0, autoload_function)
330: ZEND_ARG_INFO(0, throw)
         934: ZEND_BEGIN_ARG_INFO_EX(arginfo_spl_autoload_unregister, 0, 0, 1)
935: ZEND_ARG_INFO(0, autoload_function)
936: ZEND_END ARG INFO()
         937:
938: ZEND_BEGIN_ARG_INFO_EX(arginfo_spl_object_hash, 0, 0, 1)
```

```
25.2.2018 Page 3 of 3
          939: ZEND_ARG_INFO(0, obj)
940: ZEND_END_ARG_INFO()
     947; // (( sp.functions)
948; //
949; statte comst zond_function_motry spl_functions[] - (
970; PMD_Fi(spl_classes, split)
950; PMD_Fi(spl_classes, split)
951; PMD_Fi(spl_autoiosd_perionions, arginfo_ppl_sationad_parter)
952; PMD_Fi(spl_autoiosd_perionions, arginfo_ppl_sationad_parter)
954; PMD_Fi(spl_autoiosd_perionions, arginfo_ppl_sationad_parter)
954; PMD_Fi(spl_autoiosd_perionions, arginfo_ppl_autoiosd_parter)
957; PMD_Fi(spl_autoiosd_perionions, arginfo_ppl_autoiosd_parter)
957; PMD_Fi(spl_autoiosd_perionions, arginfo_ppl_autoiosd_parter)
959; PMD_Fi(spl_autoiosd_perionions, arginfo_ppl_autoiosd_perionions, arginfo_ppl_autoiosd_parter)
959; PMD_Fi(spl_autoiosd_perionions, arginfo_ppl_autoiosd_perionions, arginfo_ppl_autoiosd_parter)
959; PMD_Fi(spl_autoiosd_perionions, arginf
                                          /* ((( spl_functions
            972: */
973: PHP_MINIT_FUNCTION(spl)
974: (
975: PHP_MINIT(spl_exception
976: PHP_MINIT(spl_iterators
977: PHB_MINIT(spl array)(TN
          984: return SUCCESS;
985: )
986: /* ]]] */
       987:
988: PHP_RINIT_FUNCTION(apl) /* ((( */
989: [
990: SPL_G(autoload_extensions) = NULL
991: SPL_G(autoload_functions) = NULL
992: SPL_G(hash_mask_init) = 0;
                                               (
if (SPL_G(autoload_extensions)) {
  zend_string_release(SPL_G(autoload_extensions));
  SPL_G(autoload_extensions) = NULL;
                                               ]
if (SPL_G(autoload_functions)) {
    zend_hash_destroy(SPL_G(autoload_functions));
    FREE_HASHTABLE(SPL_G(autoload_functions));
    SPL_G(autoload_functions) = NULL;
     1008: SPL_G(hash_mask_init
1009: }
1010: return SUCCESS;
1011: } /* // */
1012:
1013: /* {{{ spl_module_entry
       1014: */
1015: zend_module_entry spl_module_entry = {
1016: STANDARD_MODULE_HEADER,
     1017: "SPL",
1018: spl_functions,
1019: PHP_MINIT(spl),
                                               NULL,

PHP_RINIT(spl),

PHP_REHUTDOWN(spl),

PHP_MINFO(spl),

PHP_SPL_VERSION,

PHP_MODULE_GLOBALS(spl),

PHP_GINIT(spl),

NULL,
1031: /* || || */

1032: /*

1033: /*

1034: * Local variables:

1035: * tab-width: 4

1036: * c-basic-offset: 4

1037: * End:

1038: * vims00: fdm-marker

1039: * vim: noet sw-4 ts-4

1040: */
```

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ext/spl/spl_observer.h

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```
| Copyright (c) 1997-2018 The PHP Group
         /* entries changed by initialize */
if (obj_ctor) {
   (*ppce)->create_object = obj_ctor;
55: /* [[] spl_register_sub_class */
55: PRDPI void spl_register_sub_class[send_class_entry ** ppce, zend_class_entry ** parent_ce, char ** class_name, void *obj_ctor, const zend_function_entry
** Tunntion_lists*

** Tunntion_lists*
         by:

60: INIT_CLASS_ENTRY_EX(ce, class_name, strien(class_name), function_list);

61: *ppce - zend_register_internal_class_ex(sce, parent_ce);

62:
                                /* entries changed by initialize */
if (obj_ctor) {
    ("ppce) >create_object = obj_ctor;
} else {
    ("ppce) >create_object = parent_ce >create_object;
                             /* [[[ spl_register_property */
void spl_register_property( zend_class_entry * class_entry, char *prop_name, int prop_name_len, int prop_flags)
          79: /* ([[ spl_add_class_name */
80: void spl_add_class_name(zval *list, zend_class_entry *pce, int allow, int ce_flags)
         E: If (fallow || (allow > 0 as pow->ce_flags : oe_flags) || (allow < 0 as !(pow->ce_flags a ce_flags))) (
B: vaul tmp:
B: vaul tmp:
B: If ((tmp = zend_bash_find(I_ABSVAL_P(list), pow->name)) == NULL) (
B: Table || NULL || 
                                    /* [[[ spl_add_interfaces */
void spl_add_interfaces(zval *list, zend_class_entry * pce, int allow, int ce_flags)
                                  uint32_t num_interfaces;
                                for (num_interfaces = 0; num_interfaces < pce->num_interfaces; num_interfaces+++) {
    spl_add_class_name(list, pce->interfaces[num_interfaces], allow, ce_flags);
       104: " {| | spl_add_traits */
106: void spl_add_traits (zval *list, zend_class_entry * pce, int allow, int ce_flags)
107: |
                               for (num_traits = 0; num_traits < pce->num_traits; num_traits++) {
   spl_add_class_name(list, pce->traits[num_traits], allow, ce_flags);
     110: '* ([[ spl_add_classes */
118: int spl_add_classes(zend_class_entry *pce, zval *list, int sub, int allow, int ce_flags)
119: [
 | 138 int up.ad.classes(con_class_entry *pce, rowl *list, in 191. eff (pool | 130 if (pool | 130
```

```
| Copyright (c) 1997-2018 The PHP Group
                             721
722 extern FWRAP1 rand_class_sorry *spl_cs_BplFileInfo;
722 extern FWRAP1 rand_class_sorry *spl_cs_BplFileInfo;
723 extern FWRAP1 rand_class_sorry *spl_cs_Fleepingerinterator;
723 extern FWRAP1 rand_class_sorry *spl_cs_BoursivolTectory;
724 extern FWRAP1 rand_class_sorry *spl_cs_BplFileOptor;
724 extern FWRAP1 rand_class_sorry *spl_cs_BplFileOptor;
725 extern FWRAP1 rand_class_rorry *spl_cs_BplFileOptor;
725 extern FWRAP1 rand_class_rorry *spl_cs_BplFileOptor;
726 extern FWRAP1 rand_class_rorry *spl_cs_BplFileOptor;
727 extern FWRAP1 rand_class_rorry *spl_cs_BplFileOptor;
727 extern FWRAP1 rand_class_rorry *spl_cs_BplFileOptor;
728 extern FWRAP1 rand_class_rorry *spl_cs_BplFileOptor;
729 extern FWRAP1 rand_class_rorry *spl_cs_BplFileOptor;
730 extern FWRAP1 rand_class_rorry *sp
                             421
421 sympdef struct_mpl_filesystem_object spl_filesystem_object;
444 sympdef vaid (rspl_foreign_dinot_i)(spl_filesystem_object "dbject)
445 sympdef vaid (rspl_foreign_dinot_i)(spl_filesystem_object "drop_filesystem_object "drop_filesystem_obje
                                                                                               typedef void (*spl_foreign_dtor_t)(spl_filesystem_object *object);
typedef void (*spl_foreign_clone_t)(spl_filesystem_object *arc, spl_filesystem_object *dst);
                                   49: typedef struct _spl_other_handler {
50: typedef struct _spl_other_handler {
51: spl_foreign_ctor_t dtor;
52: spl_foreign_clone_t clone;
53:) spl_other_handler;
54:
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           108: Settom top--
109: ]
110: /* | | | | |
110: /* | | | |
110: /* | | | |
111: dafine % SPLFILESTEDL*P(xx) spl_filesystem_from_obj(%_GB_P((xx)))
111: dafine % SPLFILESTEDL*P(xx) spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterator(spl_filesystem_object_to_iterat
| In the content of t
                                                                                   | Medine SFL/TLE_DIR_EXT_ALPARENCE | 0x00000000 /* make RecursiveDirectoryTree::key() roturn getPathname() */ |
Medine SFL/TLE_DIR_EXT_ALPTLENME | 0x00000000 /* make RecursiveDirectoryTree::key() roturn getPathname() */ |
Medine SFL/TLE_DIR_EXT_NOTE_DAKE | 0x00000000 /* make RecursiveDirectoryTree::machidaten() follow syminks */ |
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Medine SFL/TLE_DAKE | 0x000
                       146:

147: #define SPL_FILE_DIR_SKIPDOTS

148: #define SPL_FILE_DIR_UNIXFATHS

149: #define SPL_FILE_DIR_OTHERS_MASK

150:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0x00001000 /* Tells whether it should skip dots or not */
0x00002000 /* Whether to unixify path separators */
0x00003000 /* mask used for qet/setFlags */
                       _____FILE_DIR_OTHERS_M

150:

151: #endif /* SPL_DIRECTORY_H */

152:

153: /*
```

```
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        /* SIdS */
 21:
22: #ifdef HAVE_CONFIG_H
23: #include "config.h"
24: #endif
       #include "php_spl.h"
#include "spl_functions.h"
#include "spl_engine.h"
#include "spl_fixedarray.h"
#include "spl_exceptions.h"
#include "spl_exceptions.h"
       76: static inline spl_fixedarray_object *spl_fixed_array_from_obj(rend_object *obj) /* ([[ */ {
77:    return (spl_fixedarray_object*)((char*)(obj) - XtOffsetOf(spl_fixedarray_object, std));
    ll: #define Z_SPLFIXEDARRAY_P(zv) spl_fixed_array_from_obj(Z_OBJ_P((zv)))
  82:
83: static void spl_fixedarray_init(spl_fixedarray *array, zend_long size) /* {{{ "/
84: {
          if (size > 0) {
   array->size = 0; /* reset size in case ecalico() fails */
   array->size = size;
}
array->size = size;
} else (; val);
        static void spl_fixedarray_resize(spl_fixedarray *array, zend_long size) /* {{{ ({{}} |} *.}
           )
| slee if (size > array-size) {
| array-olements = safe_erealloc(array-selements, size, sizeof(rval), 0);
| messed (array-selements + array-size, '\0', sizeof(rval) * (size - array-size));
| alse ('* size < array-size *')
| alse ('* size < array-size *')
            for (i = size; i < array->size; i++) {
   zval_ptr_dtor(s(array->elements[i]));
         array->size = size;
        static void spl_fixedarray_copy(spl_fixedarray *to, spl_fixedarray *from) /* ((( */
          int i;
for (i = 0; i < from->size; i++) {
    ZVAL_COPY(sto->elements[i], sfrom->elements[i]);
148: spl_fixedarray_object *intern = Z_SPLFIXEDARRAY_P(obj);
149: HashTable *ht = zend_std_get_properties(obj);
150:
         static HashTable* spl_fixedarray_object_get_properties(zval *obj) /* (((( */
          spl_fixedarray_object *intern = Z_SPLFIXEDARRAY_P(obj);
HashTable *ht = zend_std_get_properties(obj);
zend_long i = 0;
            for (1 = 0; i < interm-varray.size; i++) {
   if (12.5SNDEF(interm-varray.elements(1)) }
   send_hash_index_update(ht, i, iinterm-varray.elements[i]);
   2.TRX_ADDREF(interm-varray.elements[i]);
   alse {
      send_hash_index_update(ht, i, sBC(uninitialized_rval));
   }
}</pre>
              }
if (j > intern->array.size) {
   for (i = intern->array.size; i < j; ++i) {
      zend_hash_index_del(ht, i);
      .
          spl_fixedarray_object *intern = spl_fixed_array_from_obj(object);
```

```
zend_long i;
   zend_object_std_dtor(sintern->std);
zend_object_iterator *spl_fixedarray_get_iterator(zend_class_entry *ce, zval *object, int bv_ref);
 static zend_object *spl_fixedarray_object_new_ex(zend_class_entry *class_type, zval *orig, int clone_orig) /* {{{ "/
     intern = zend_object_alloc(sizeof(spl_fixedarray_object), parent);
   zend_object_std_init(&intern->std, class_type);
object_properties_init(&intern->std, class_type);
   if (orig is close_orig) {
    spl_fixedarray_object *other = Z_SPIFIXEDARRAY_P(orig);
    intern>oe_spt_fixedarray_object.
    spl_fixedarray_object.
    spl_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed_fixed
   while (parent) {
  if (parent == spl_ce_SplFixedArray) {
    intern-satd.handlers = sspl_handler_SplFixedArray;
    class_type->get_iterator = spl_fixedarray_get_iterator;
    break;
      if (!parent) ( /* this must never happen */
php_error_docref(NULL, E_COMPILE_ERROR, "Internal compiler error, Class is not child of SplFixedArray");
   ]
if (inherited) {
    if (class_type->iterator_funcs.sf_rewind->common.scope != parent) {
        intern->flags |= SPL_FIXEDARRAY_OVERLOADED_REWIND;
    }
               }
if (class_type->iterator_funcs.zf_valid->common.scope != parent) {
  intern->flags |= SPL_FIXEDARRAY_OVERLOADED_VALID;
           if (class_type->iterator_funcs.zf_key->common.scope != parent) {
  intern->flags |= SPL_FIXEDARRAY_OVERLOADED_KEY;
           )
if (class_type->iterator_funcs.sf_current->common.scope != parent)
intern->flags |= SPL_FIXEDARRAY_OVERLOADED_CURRENT;
           intern->fptr_offset_get = zend_hash_str_find_ptr(sclass_type->function_table, "offsetget", sizeof("offsetget") - 1);
if (intern->fptr_offset_get = Nut_spt = parent) {
    intern->fptr_offset_get = Nut_spt = parent) {
    intern->fptr_offset_
             lintern->fptr_offset_set = zend_hash_str_find_ptr(sclass_type->function_table, "offsetset", sizeof("offsetset") = 1);
if (intern->fptr_offset_set->common.scope == parent) {
    intern->fptr_offset_set = NULl;
}
           ]
interm->fptr_offset_has = rend_hash_str_find_ptr(sclass_type->function_table, "offsetexists", sizeof("offsetexists") - 1)
if (interm->fptr_offset_has ->common.cope == parent) {
   interm->fptr_offset_has -> NULL;
   interm->fptr_offset_has -> NULL;
}
             | intern-Yptr_offset_del = rend_hash_str_find_ptr(sclass_type->function_table, "offsetunset", sizeof("offsetunset") - 1)
if (intern-Yptr_offset_del = NULl.)
if (intern-Yptr_offset_del = NULl.)
           } interm->fptr_count = zend_hash_str_find_ptr(iclass_type->function_table, "count", sizeof("count") - 1); if (interm->fptr_count->common.scope -- parent) { interm->fptr_count = NULT.
      return spl_fixedarray_object_new_ex(class_type, NULL, 0);
   zend_object *old_object;
zend_object *new_object;
   zend_objects_clone_members(new_object, old_object);
  /* we have to return NULL on error here to avoid membeak because of
* EE Amplicating uninitialized_eval_ptr */
if (offset) [
zend_throw_exception(spl_ce_BuntimeException, "Index invalid or out of range", 0);
return NULL;
     zend_long index;
  if (Z_TYPE_P(offset) != IS_LONG) {
  index = spl_offset_convert_to_long(offset);
} else {
  index = Z_LVAL_P(offset);
}
     if (index < 0 || index >= intern->array.size) {
  zend_throw_exception(spl_ce_RuntimeException, "Index invalid or out of range", 0);
   return NULl;
) alse if (<_ISUNDEF(intern->array.elements[index])) {
  return NULL;
) alse {
  return intern->array.elements[index];
static zval *spl_fixedarray_object_read_dimension(zval *object, zval *offset, int type, zval *rv) /* ((( */
      spl_fixedarray_object *intern;
   intern = Z_SPLFIXEDARRAY_P(object):
  if (!i_zend_is_true(rv)) {
   zval_ptr_dtor(offset);
   zval_ptr_dtor(rv);
   return sEG(uninitialized_zval);
  if (intern->fptr_offset_get) {
    rval tmp;
    if (loffset) {
        ZVAL_SVALL(stmp);
        offset = stmp;
    } else {
        SEPARATE_ARG_IF_REF(offset);
    }
}
             }
read_call_method_with_lparams(object, intern->std.ce, &intern->fptr_offset_get, "offsetGet", rv, offset);
rval_ptr_fsor(offset);
fr(#1_SURGET_P(rv)) {
return rv;
               preturn sEG(uninitialized_zval);
```

```
return spl_fixedarray_object_read_dimension_helper(intern, offset);
                   if (Z_TYPE_P(offset) != IS_LONG) {
  index = spl_offset_convert_to_long(offset);
                            else {
index = Z_LVAL_P(offset);
                    if (index < 0 || index >= intern->array.size) {
   zend_throw_exception(spl_ce_RuntimeException, "Index invalid or out of range", 0);
                    return;
} else {
   if (!Z_ISUNDEF(intern->array.elements[index])) {
      rval_ptr_dtor(s(intern->array.elements[index]));
}
                           2VAL_DEREF(value);
2VAL_COPY(sintern->array.elements[index], value);
                   spl_fixedarray_object *intern;
zval tmp;
                    intern = Z_SPLFIXEDARRAY_P(object);
                 if (intern->fptr_offset_set) {
   if (!offset) {
    ZVAL_NULL(stmp);
   offset = stmp;
} else {
    SEPARATE_ARG_IF_REF(offset);
}
                          }
STRANTE_NG_IF_MET(value);
zend_call_method_with_2_params(object, intern->std.ce, sintern->fptr_offset_set, "offsetSet", NULL, offset, value);
zval_str_dscr(offset);
zval_str_dscr(offset);
zval_str_dscr(offset);
                   spl_fixedarray_object_write_dimension_helper(intern, offset, value);
                static inline void spl_fixedarray_object_unset_dimension_helper(spl_fixedarray_object *intern, zval *offset) /* [[[ */
                   if (Z_TYPE_P(offset) != IS_LONG) {
  index = spl_offset_convert_to_long(offset);
  lets (
  index = Z_LVAL_P(offset);
                    if (index < 0 || index >= intern->array.size) {
  zend_throw_exception(spl_ce_RuntimeException, "Index invalid or out of range", 0);
                   spl_fixedarray_object *intern;
                 if (intern->fptr_offset_del) {
    SEPARATE_ARG_IF_REF(offset);
    zend_call_method_with_l_param
    zval_ptr_dtor(offset);
    return;
                                                                                                                                   (object, intern->std.ce, sintern->fptr_offset_del, "offsetUnset", NULL, offset);
                   spl_fixedarray_object_unset_dimension_helper(intern, offset);
               static inline int spl_fixedarray_object_has_dimension_helper(spl_fixedarray_object *intern, zval *offset, int check_empty) /* {{{{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * {{}} * * {{}} * * {{}} * {{}} * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * * {{}} * 
                    if (Z_TYPE_P(offset) != IS_LONG) {
  index = spl_offset_convert_to_long(offset);
                    ) else {
index = Z_LVAL_P(offset);
                 if (index < 0 || index >= intern-parray.size) (
    retval = 0)
    slase (
    if (L_index)=intern-parray.elements[index])) {
        if (index_empty) (
        if (index_empty) (
        if (rend_is_true(intern-parray.elements[index])) {
            retval = 1;
        } elase (
        retval = 0;
        retval = 0;
    }
}
               spl_fixedarray_object *intern;
                 intern = Z_SPLFIXEDARRAY_P(object);
                 if (intern-Yptr_offset_has) {
  rval rv;
  SEPARATE_ARG_IF_REF(offset);
  rend_coil_method_with_l_params(object,
  rval_ptr_door(offset);
  if (!2_1000Ef(vi)) {
    zend_bool result = zend_is_true(irv);
    rval_ptr_door(srv);
  rval_ptr_door(srv);
                       return 0;
                 return spl_fixedarray_object_has_dimension_helper(intern, offset, check_empty);
527:
528: static int spl_fixedarray_object_count_elements(zval *object, zend_long *count) /* {{{ "/ 529: (
                 intern = 2_SPITIKINAMANTy(object);
if(intern->=2_SPITIKINAMANTy(object);
if(intern->=2_SPITIKINAMANTY(object
                    spl_fixedarray_object *intern;
                   clse {
 *count = intern->array.size;
               SPL_METHOD(SplFixedArray, __construct)
                   if (zend_parse_parameters_throw(ZEND_NUM_ARGS(), "|1", &size) == FAILURE) {
    return;
                   if (size < 0) {
  zend_throw_exception_ex(spl_ce_InvalidArgumentException, 0, "array size cannot be less than zero");</pre>
```

```
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         intern = Z_SPLFIXEDARRAY_P(object);
         if (intern->array.size > 0) {
    /* called __construct() twice, bail out */
    return;
}
         spl_fixedarray_init(sintern->array, size);
        SPL_METHOD (SplFixedArray, __wakeup)
         if (zend_parse_parameters_none() == FAILURE) {
         if (intern->array.size == 0) {
  int index = 0;
  int size = zend_hash_num_elements(intern_ht);
           spl_fixedarray_init(&intern->array, size);
            ZEND_HASH_FOREACH_VAL(intern_ht, data) {
    ZVAL_COPY(sintern->array.elements[index], data);
    index+++;
    ZEND_HASH_FOREACH_END();
         * [[[ proto int SplFixedArray::count
         zval *object = getThis();
spl_fixedarray_object *intern;
         if (zend_parse_parameters_none() == FAILURE) {
    return;
        /* ((( proto object SplFixedArray::toArray()
625: SPL_METHOD(SplFixedArray, toArray)
         spl_fixedarray_object *intern;
         intern = Z_SPLFIXEDARRAY_P(getThis());
         if (intern->array.size > 0) (
  int i = 0;
           array_init(return_value);
for (; i < intern-varray,sise; i++) {
    (12.1500c(intern-varray,elements[1]) {
        ion(_hash_index_update(fl_MONOL_P(return_value), i, sintern-varray.elements[1]);
        zurn_LOSS(untern-varray_elements[1]);
        ion(_hash_index_update(fl_MONOL_P(return_value), i, sintern-varray.elements[1]);
        iond_hash_index_update(fl_MONOL_P(return_value), i, sED(unintialized_rval));
    }
         SPL_METHOD(SplFixedArray, fromArray)
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "a|b", sdata, ssave_indexes) -- FAILURE) {
   return;
             )
) ZEND_HASH_FOREACH_END();
              spl_fixedarray_init(&array, tmp);
           ZEND_MASH_FOREACH_KEY_VAL(Z_AREVAL_P(data), num_index, str_index, element) {
    TVAL_DEEF(element)
    TVAL_OPF(sarray.elements(num_index), element);
    JEND_MASM_FOREACH_END();
}
             ZEND_HASH_FOREACH_VAL(2_ARRVAL_P(data), element) {
    TVAL_DEREF(element);
    ZVAL_COPY(sarray.elements[i], element);
    i++;
}    ZEND_HASH_FOREACH_END();
         object_init_ex(return_value, spl_ce_SplFixedArray);
          intern = 2_SPLFIXEDARRAY_P(return_value);
intern->array = array;
         /* [[[ proto int SplFixedArray::getSize
        */
SPL_METHOD(SplFixedArray, getSize)
         SPL_METHOD (SplFixedArray, setSize)
         if (zend_parse_parameters(ZEND_NUM_ARGS(), "1", ssize) == FAILURE) (
                                    eption_ex(spl_ce_InvalidArgumentException, 0, "array size cannot be less than zero");
```

```
ext/spl/spl_fixedarray.c
         intern = Z_SPLFIXEDARRAY_P(object);
        spl_fixedarray_resize(sintern->array, size);
RETURN_TRUE;
        zval *zindex;
spl_fixedarray_object *intern;
        if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", &zindex) -- FAILURE) {
         intern = Z_SPLFIXEDARRAY_P(qetThis());
        RETURN_BOOL(spl_fixedarray_object_has_dimension_helper(intern, zindex, 0));
        zval *zindex, *value;
spl_fixedarray_object *intern;
intern = 2_SPLFIXEDARRAY_P(getThis());
value = spl_fixedarray_object_read_dimension_helper(intern, zindex);
        if (value) {
   ZVAL_DEREF(value);
   ZVAL_COFY(seturn_value, value);
   else {
    RETURN_NULL();
}
      /* {{{ proto void SplFixedArray::offsetSet(mixed Sindex, mixed Snew
Sets the value at the specified Sindex to Snewval. */
SPL_METBOO(SplFixedArray, offsetSet)
        zval *zindex, *value;
spl_fixedarray_object *intern;
        if (zend_parse_parameters(ZEND_NUM_ARGS(), "zz", szindex, svalue) == FAILURE) {
    return:
        intern = Z_SPLFIXEDARRAY_P(getThis());
spl_fixedarray_object_write_dimension_helper(intern, zindex, value);
81E: / ///
813: 14: / {|| proto void SpiFixedArray::offsetUnset(mixed Sindex,
815: Unsets the value at the specified Sindex. */
816: SPL_METHOD(SpiFixedArray, offsetUnset)
       zval *zindex;
spl_fixedarray_object *intern;
        if (zend_parse_parameters(ZEND_NUM_ARGS(), "z", &zindex) -- FAILURE) {
         spl_fixedarray_it *iterator = (spl_fixedarray_it *)iter;
834: zend_user_it_invalidate_current(iter);
835: zval_ptr_dtor(siterator->intern.it.data);
836:)
        spl_fixedarray_object *object = Z_SPLFIXEDARRAY_P(&iter->data);
        if (object->flags & SPL_FIXEDARRAY_OVERLOADED_REWIND) {
  zend_user_it_rewind(iter);
        lese {
  object->current = 0;
         spl_fixedarray_object *object = Z_SPLFIXEDARRAY_P(&iter->data);
       if (object->flags & SPL_FIXEDARRAY_OVERLOADED_VALID) {
   return zend_user_it_valid(iter);
       static zval *spl_fixedarray_it_get_current_data(zend_object_iterator *iter) /* ((( *
         zval zindex;
spl_fixedarray_object *object = Z_SPLFIXEDARRAY_P(&iter->data);
        if (object->flags & SPL_FIXEDARRAY_OVERLOADED_CURRENT) {
    return zend_user_it_get_current_data(iter);
    else {
        rval *data;
    }
}
          data = spl_fixedarray_object_read_dimension_helper(object, szindex);
zval_ptr_dtor(szindex);
          if (data == NULL) (
   data = sEG(uninitialized_zval);
         return data;
         spl_fixedarray_object *object = Z_SPLFIXEDARRAY_P(&iter->data);
        {
   spl_fixedarray_object *object = Z_SPLFIXEDARRAY_P(&iter->data);
       if (object->flags & SPL_FIXEDARRAY_OVERLOADED_NEXT) {
   rend_user_it_move_forward(iter);
   else {
        rend_user_it_invalidate_current(iter);
        object->current++;
   }
        if (zend_parse_parameters_none() == FAILURE) (
        spl_fixedarray_object *intern = Z_SPLFIXEDARRAY_P(getThis());
        if (zend_parse_parameters_none() == FAILURE) (
    return;
```

```
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    941: /* JJJ */
942:
943: /* ((( pz
                          spl_fixedarray_object *intern = Z_SPLFIXEDARRAY_P(qetThis());
                          if (zend_parse_parameters_none() == FAILURE) {
                          spl fixedarray object *intern = Z SPLFIXEDARRAY P(getThis()):
                         if (zend_parse_parameters_none() == FAILURE) {
   return;
        974: (
975: zval zindex, *value;
976: spl_fixedarray_object *intern = Z_SPLFIXEDARRAY_P(getThis());
        977:
978: if (zend_parse_parameters_none() == FAILURE) {
                          ZVAL_LONG(szindex, intern->current);
                          value = spl_fixedarray_object_read_dimension_helper(intern, &zindex);
                          zval_ptr_dtor(szindex);
                         if (value) {
    ZVAL_DEREF(value);
    ZVAL_COPY(return_value, value);
} else {
    RETURN_NULL();
}
                    /* iterator handler table '/
attatic comat zond_object_iterator_funcs spl_fixedarray_it_funcs = {
    spl_fixedarray_it_door,
    spl_fixedarray_it_door,
    spl_fixedarray_it_door,
    spl_fixedarray_it_op_courrent_data,
    spl_fixedarray_it_op_courrent_key,
    spl_fixedarray_it_op_courr
  spl_fixedarray_it *iterator;
                          if (by_ref) (

zend_throw_exception(spl_ce_RuntiseException, "An iterator cannot be used with foreach by reference", 0);
return NULL;
                          iterator = emalloc(sizeof(spl_fixedarray_it));
                          zend_iterator_init((zend_object_iterator*)iterator);
                          ZVAL_COPY(siterator->intern.it.data, object);
iterator->intern.it.funcs = sspl_fixedarray_it_funcs;
iterator->intern.e= ce;
ZVAL_UNDEF(siterator->intern.value);
  1034: ZEND_BEGIN_ARG_INFO_EX(arginfo_fixedarray_offsetGet, 0, 0, 1)
1035: ZEND_ARG_INFO(0, index)
1036: ZEND_END_ARG_INFO()
    1037; DIDS: EMB.BEGIN_AMG_INFO_EX(arginfo_fixedarray_offsetSet, 0, 0, 2)
1039: EBB_DASC_INFO(0, index)
1039: EBB_DASC_INFO(0, newval)
1041: EBB_DASC_INFO(0)
1041: EBB_DASC_INFO(0)
  1052: EEND_BEGIN_ARG_INFO(arginfo_splfixedarray_void, 0) 1053: ZEND_END_ARG_INFO() 1054:
1076: /* ((( PHP_MINIT_FUNCTION */
1077: PHP_MINIT_FUNCTION(spl_fixedarray)
1078: (
                          REGISTER_SPL_STD_CLASS_EX(SplFixedArray, spl_fixedarray_new, spl_funcs_SplFixedArray);
memcpy(tspl_handler_SplFixedArray, zend_get_std_object_handlers(), sizeof(zend_object_handler
                       memory (sep1) handler_ppiTisedhrray, rend_pet_std_object_handlers(), sizeof(rend_object_handlers()) pitsedhray.offer |
ppl_handler_ppiTisedhray, close_obj | spl_handler_ppiTisedhray, valies_object_handler_ppiTisedhray, valies_object_handler_ppiTisedhray, varies_dissension | spl_handler_ppiTisedhray, varies_dissension | spl_handler_ppiTisedhray, varies_dissension | spl_handler_ppiTisedhray, valies_dissension | spl_tixedaray_object_free_storage; | spl_fixedaray_object_free_storage; |
                          return SUCCESS;
```

ext/spl/php\_spl.h

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```
PMP Version 7

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Authors: Marcus Roaryer chelly@php.net>
200 | Familian FPE_DPL, II
222 | Finctions plug. IV
223 | Finctions cuttary. IV
244 | Site | Familian FPE_DPL, VERSION PRE_VERSION
246 | Site | Familian FPE_DPL, VERSION PRE_VERSION
270 | extern send_module_entry plug. India_entry
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270 | extern send_module_entry plug. India_entry
271 | define BPL_DPL, declapse(dileapert)
272 | define BPL_DPL, declapse(dileapert)
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275 | elidate_entred(construct) entr
           44: #if defined(PPP_WIN32) && !defined(COMPILE_DL_SPI)
44: #indef phpext_spl
46: #define phpext_spl NULL
47: #define phpext_spl NULL
47:
           64:
65: ZEND_EXTERN_MODULE_GLOBALS(spl)
66: #define SPL_G(v) ZEND_MODULE_GLOBALS_ACCESSOR(spl, v)
               72:
73: PHPAPI zend_string *php_spl_object_hash(zval *obj);
74:
75: #endif /* PHP_SPL_H */
       75: #endif /* PHP_SPL_H */
76:
77: /*
78: * Local Variables:
79: * c-basic-offset: 4
80: * tab-width: 4
81: * End:
82: * vim800: fdm-marker
83: * vim: noet sw-4 ts-4
84: */
```